

## INTRODUCTION and ASSERTIONS:

# First Principles of Natural Form & Dynamics

## Bond between Natural Geometry, Mathematics, and Physics

Revised 6/2026

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**Abstract:** For the sake of breaking into the matter, I will firstly point to an omission that occurred during the early development of the geometric foundations of Science. It was a notable Problem at the time, yet for lack of a Solution, the matter was set aside and all but forgotten about. Since then, scientific knowledge has increased dramatically, while the early omission remained as a gap in formal knowledge, resulting in unmanageable Problems encountered by researchers in the development of some of the most prominent theories, i.e., Unified Field, Singularity, etc. A Solution easily tested by virtue of existing knowledge of natural geometry, pure mathematics, and the known laws of physics. Beyond technical proofs, this knowledge is relevant to and has application in support of increasing knowledge and understanding within fields of the arts and sciences, leading to philosophical considerations.

## **INTRODUCTION and ASSERTIONS:**

Throughout the ages the question of how natural forms arise and evolve has inspired countless thinkers to search for unifying principles that bridge the realms of geometry, mathematics, and physics. The pursuit of fundamental understanding, not only of forms observable in nature, but also the laws governing their transformation and dynamics, has remained at the heart of scientific inquiry.

It becomes clear that the emergence of structure is not arbitrary but guided by inherent rules and relationships. The task is to uncover the origin point – a singular source or archetype - from which the myriad forms and dynamic expressions are born.

In exploring the intricate tapestry of existing matter, one must look beyond surface appearances to discern the first principles of natural structures. Geometric patterns and progression recur with striking regularity throughout the manifold, beckon us to recognize a profound order woven into the fabric of existence. The same principles of form and dynamics govern everything from atomic structure to galactic universe, implying an elegant simplicity at play within the complexity of things.

Despite the concerted efforts of capable researchers with extensive facilities - a satisfactory solution for the unified cause and origin of things has long languished upon the desk of science. Nevertheless, existing research and discoveries have set the criteria into which such a Solution must fit.

**Best Practices:** If the Solution to a Problem remains unresolved, then it is time to go back over the supporting data, to determine if something is amiss there. If so, address the discrepancy before returning to the original Problem, where the Solution will become more readily available.

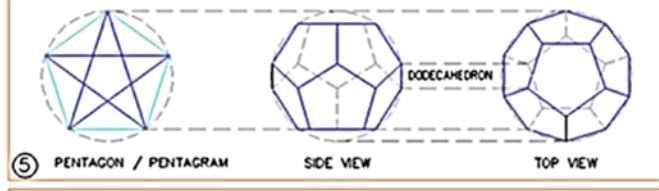
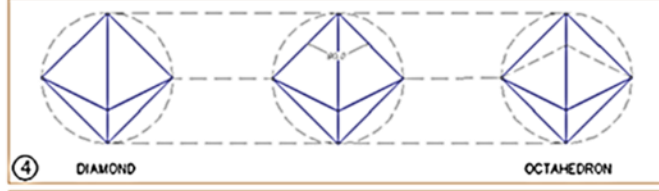
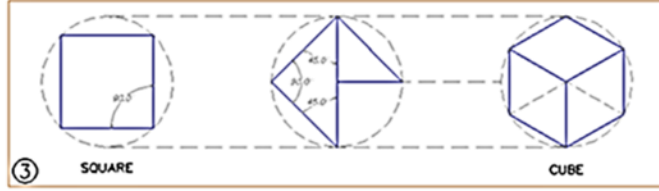
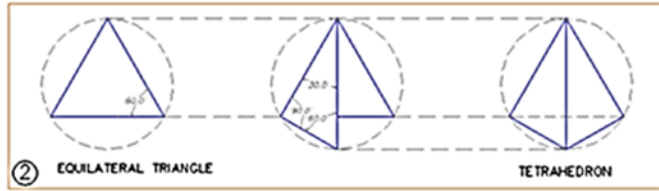
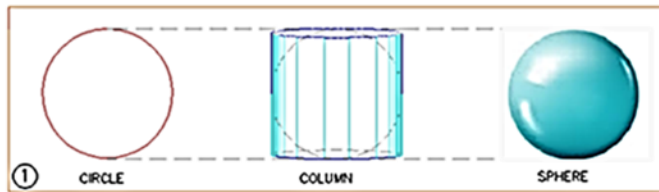
In a review of the works the early Greek geometers and mathematicians, who set the foundations upon which formal science depends, it is notable that they anticipated yet were unable to resolve

the matter of natural geometric continuity. The same matter remains unsolved in the present and is one which requires attention. That being the lack of knowledge of the continuity (bond) within the established foundation of natural geometry, it remains as gap in geometric logic, it is a matter that has not satisfied (a significant omission), being that our formal knowledge of elementary natural structure continues to underpin subsequent developments in mathematics and physics. Such is an oversight that continues to exist as a schism within the geometric foundation, upon which much of the greater body of formal sciences rests.

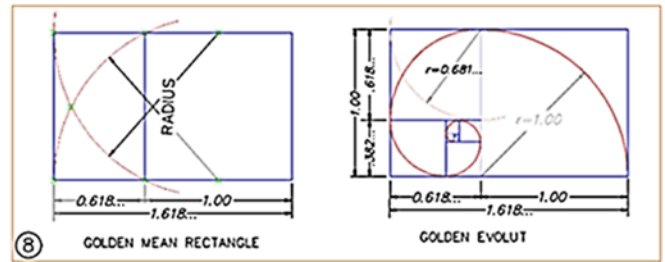
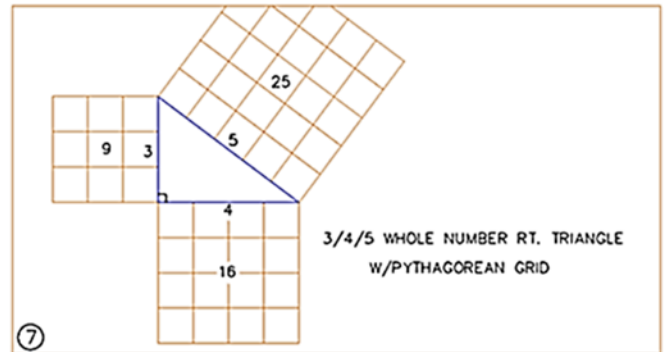
Again: Natural geometry, mathematics, and physics are deeply intertwined, while mathematics provides the language and tools to describe the bond between them. Geometry offers a framework for understanding spatial relationships between forms and forces involved. Specific knowledge of the shared bond is essential for understanding the workings and continuity within and between observable natural phenomena. Serious questions do remain regarding the exact nature of those bonds.

Setting aside mathematics and physics for the moment, to focusing on the established primary geometric shapes and forms, known to be the basis of natural structure, order, pattern, and progression, observed throughout both micro and macrocosm.

**NATURAL GEOMETRY:** There are a limited number of known primary closed characters (elements) of natural geometric shapes and forms, both 2 and 3 dimensional. Together they are understood to be the primary basis of orderly structural expressions observed throughout natural



manifold. Each of the formal shapes and forms are represented individually here. (Frames 1 – 8).



**THE PROBLEM:** Is that though there is a great deal of continuity between some of these elements. Yet, there is no known expression for overall continuity that bonds them all into one whole and continuous body of knowledge, no

singular expression that serves as a transitional geometry running between and throughout them all, no known expression from which they all can be said to arise, no known singular origin and continuous bond within and between them. And that is the Problem the ancient geometers observed and discussed in their ancient writings, yet were unable to resolve, i.e., the ancient omission. It has remained ever since as a gap in geometric foundation upon which subsequent developments higher forms of geometry, mathematics, and physics depend as stable reference - benchmark. The absence of such resulted in a perpetual schism, a lack of tangible closure necessary to complete the more complex theories. Theories regarding overall unification of material structures as they act in concert with the known laws of physics.

Analogy: As though science has been working on a large and complex puzzle, while unaware of

the existence of an obscure yet vital missing piece, around and about which the known puzzle pieces should coalesce. Such is one that when once realized and put in place, the known elements of the larger puzzle will then converge, to bring into focus, compete and unify the overall picture.

Natural Structure and Dynamics: All orderly natural structure can be traced to a limited number of whole-closed geometric characters (elements). While Form and Force (static and dynamic) are but unique states of matter arising simultaneously from a singular origin and cause perpetually unified to one another. While formal science has yet to fully define and describe their singular origin and cause, along with the specific nature of the bond between them.

Nature and Cosmos: This is not to suggest that the natural world, along with the surrounding Cosmos, lacks continuity! Rather it is that formal science lacks complete knowledge of such unified continuity. Both natural geometric structure and energetic fields act in concert!

Perhaps: It is that the essential properties (workings – first principles) of matter are of such remote simplicity, while ever nested within and operating throughout the vast complexity of things, making it particularly difficult to distill (isolate), to accurately define. Yet there is in fact, a singular (tangible) geometry expression, from which all subsequent geometric expressions and patterns progressively arise, while simultaneously giving rise spontaneous dynamics, i.e., the spontaneous manifestation and propagation of natural dynamics – as in the laws of physics. Both form and dynamics operate in precise relative and continuous continuity, giving way to orderly structures, patterns, and progression, along with the development of synchronized energetic fields and exchanges occurring throughout nature and cosmos.

Then Again: There are instances of entropy, systematic collapse, chaos, and destructive processes commonly occur, in places, throughout observable manifold. The cause and logic of which will be discussed in more detail, further along.

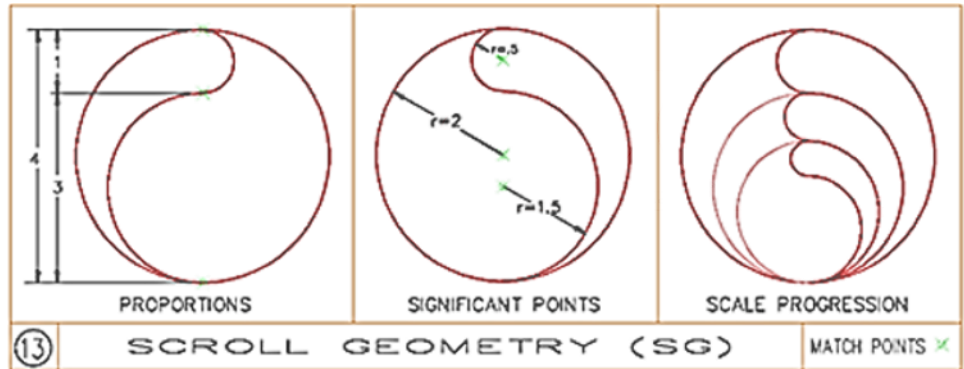
Firstly: The matter of a singular geometric expression (previously overlooked) and its relationship to each of the individual geometric characters (elements) that comprise the ancient and accepted foundation of natural geometry.

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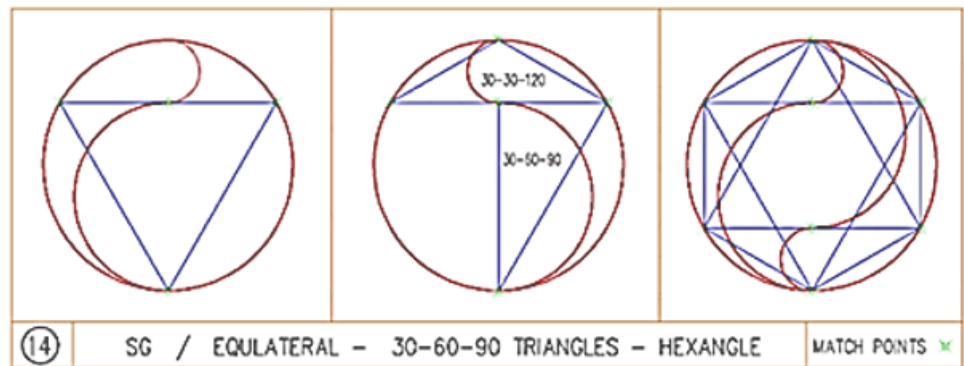
**GEOMETRIC SOLUTION:**

**Scroll Geometry:** From this point forward, the primary character of this geometric proof shall be referred to as Scroll Geometry - SG. (Frame 13) The following (Frames 14 - 19) represent as the series of individual geometric expressions that have been overlayed in conjunction with SG, demonstrating their precise relationships to SG. Applied mathematics will further prove the absolute precision of the correlations, as implied.

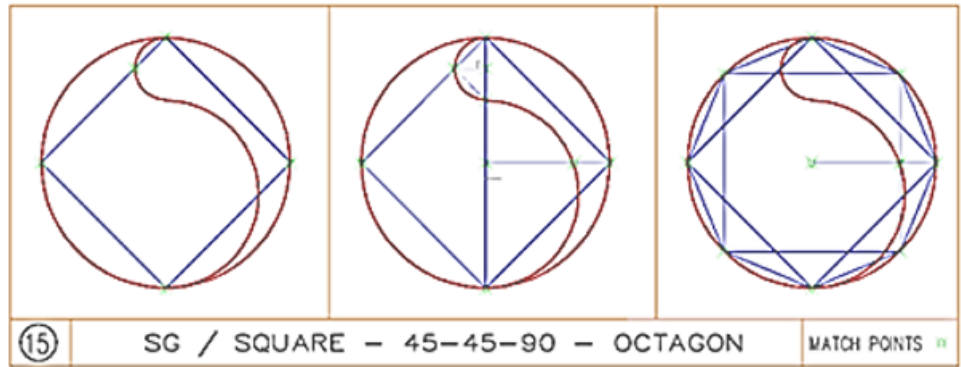
(Frame 13) SG consists of precise whole number proportions, w/ center points of construction. Also included is a brief idea of scaled progression.



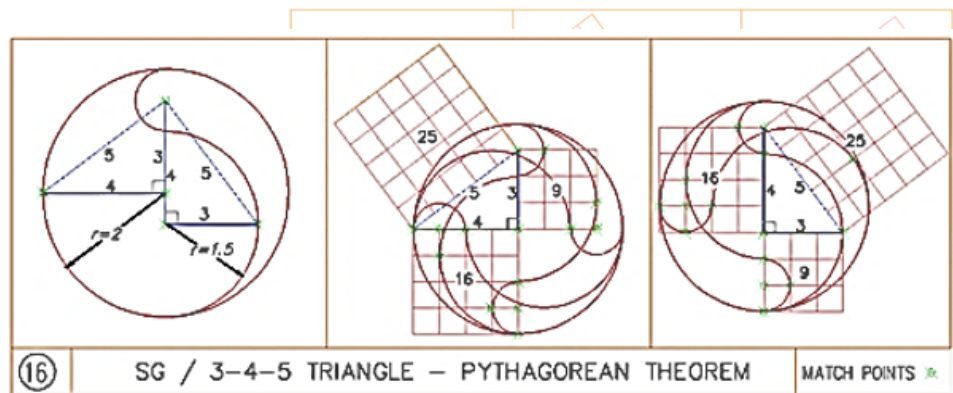
(Frame 14) Equilateral Triangle overlayed on SG demonstrates precise closed relationships. Also, the 30-60-90 Triangles - Hexagon & Hexagram and their derivatives.



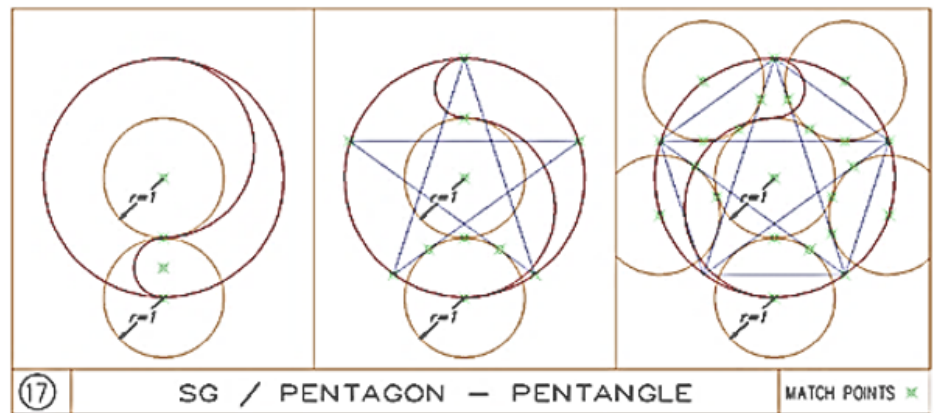
(Frame 15) SG / Square and its derivatives.



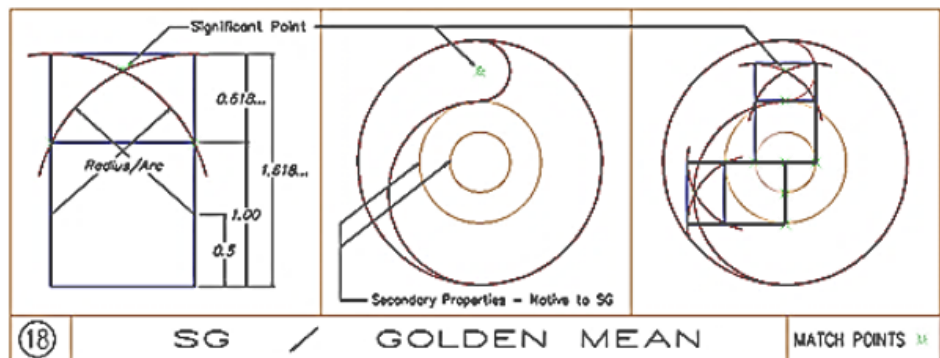
(Frame 16) Two 3-4-5 Triangles each overlaid on SG. Included here are grids associated with the Pythagorean Theorem. The green Match Points are beyond coincidental.



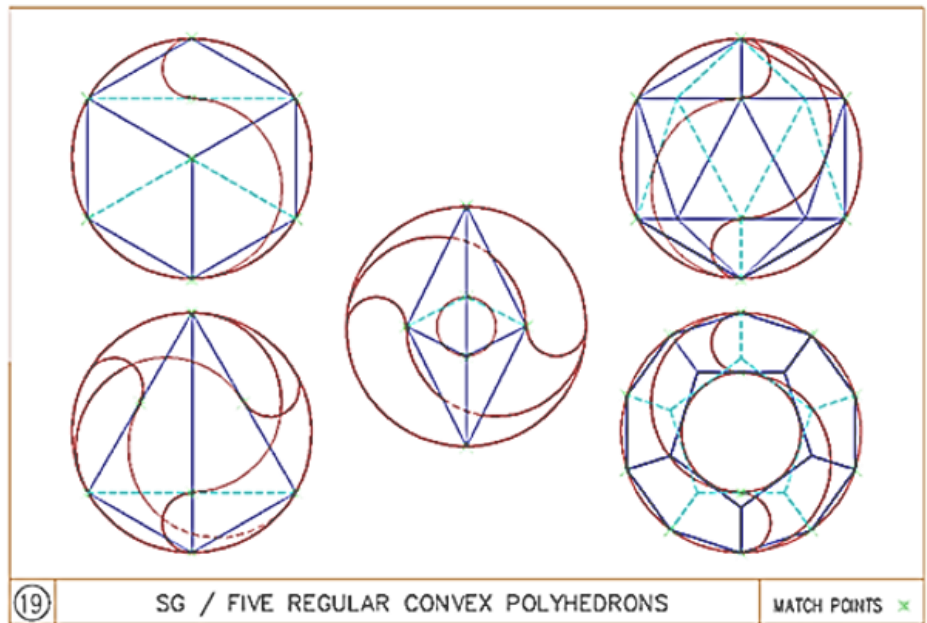
(Frame 17) In a couple instances, secondary developments (native to SG) are required to show correlations. Nevertheless, they are both logical and precise.



(Frame 18) Here, a compass & straightedge construction of the Golden Mean Rectangle, when overlaid upon SG and its secondary (native) properties. Two such rectangles oriented as shown produce a series of precise match points.



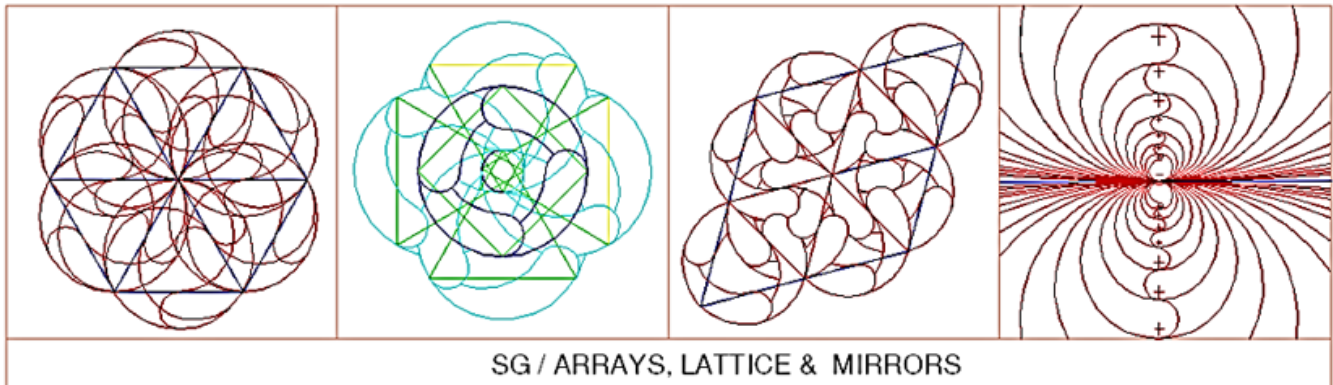
(Frame 19) Isometric drawings of the Five Regular Solids, shown in conjunction with SG, are interesting. Moreover, when the same Solids are constructed as actual 3-D frameworks and SG is also carried into 3-D, the geometries will continue to synchronize in equally precise manners. SG is a universal common denominator for both 2-D & 3-D geometries.



Analogous to the seams of a baseball covering wrapping around onto itself. Moreover, as soap bubble geometry, with an internal membrane traversing the interior, i.e., 3-D geometry with internal topology. There is more about this to be said when it gets into energetic field influences and exchanges.

The separate characters of natural geometry (Frame 1 – 8) are observed at all stages of orderly natural structures. Yet the transitional geometry that operates within and between them in natural structures as an unbroken natural bond has long eluded formal knowledge.

SG / Arrays, Lattices: A few brief depictions of SG coupled with simple 2-D geometries, and one suggesting mirrored progressive magnetic fields. Scroll Geometry is the common denominator



and transitional geometry running through natural structure, equating them seamlessly to one another. Mathematics offers certain proof in support of these assertions. Much more could be said here, but for now I will leave it to your consideration and critical review to confirm or refute these things. Perhaps further discussion may be in order.

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### **Dynamics:**

Natural forms and dynamic forces reflect (are relative) of one another. Therefore, accurate knowledge of the primary basis of natural structure offers insight into the field configuration of the various energetic fields of force (four forces) involved.

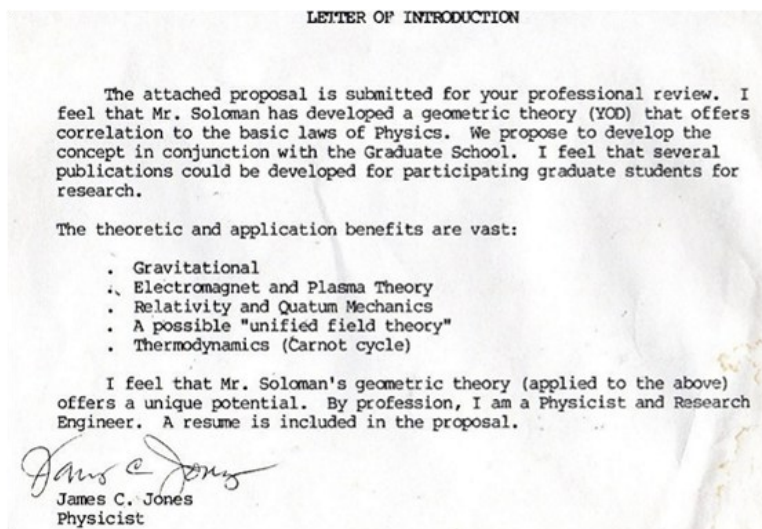
*“The Problem” by Albert Einstein: “Which are the simplest formal structures that can be attributed to a four-dimensional continuum, and which are the simplest laws that may be constructed to govern these structures. We then look for the mathematical expressions of physical fields in these formal structures and the field laws of physics already known to a certain approximation from earlier research in simplest laws governing the structures!”*

Scroll Geometry coupled with Scroll Physics (SP) is perhaps that *“simplest formal structure, etc., etc.”*, the basis for Solution to “The Problem”!

There are numerous hypotheticals and theoretical stated in various ways pointing to both the Problem and the necessary criteria to be satisfied for a Solution to the matter of interface between form and force. Yet a completely satisfactory Solution has long remained elusive. At length, SG / SP is the basis for a technical and logical expression of understanding - leading to greater continuity and proofs regarding several prominent theoretical models, i.e., Unified Field, Standard Model / Quantum Mechanics, Singularity, Higgs Boson, etc.

Modest Personal Example: The attached “Letter of Introduction” written some three decades ago, wherein there are a couple minor corrections. (1.) The spelling of my name. (2.) At that time, I had been referring to this geometry as “YOD Geometry”, I now refer to it as Scroll Geometry, both refer to the same person and the same matter.

I must credit Mr. James C. Jones, a physicist then recently retired from Los Alamos Laboratory, whom I made acquaintance of. He took serious interest in my assertions regarding YOD, aka Scroll



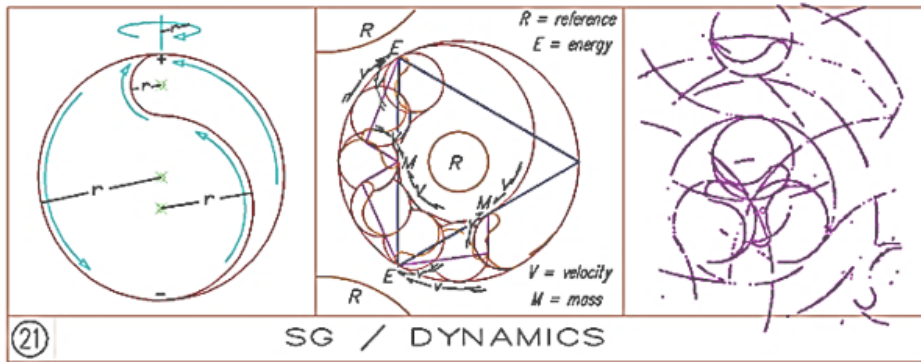
Geometry. One late evening while in shared company, Mr. Jones set about seriously mulling over the implications of the matter. I had gone to rest - hours later I awoke to hear him exclaiming “I certainly do know how to apply the laws of physics, and I have gone over & over this expression (as a dynamic model) and keep coming up with a gain in

energy!”. I responded - “Yes! I suspected as much but did not have a way of further proving it!” He insisted that no such gain in energy is currently known of, according to formal physics. Yet at length we both agreed that some-such self-actuating energetic process must surely have occurred in the first place, and has thereby continued to progress as such, for things to have developed into this complexly organized living reality.

Unfortunately, I have since lost contact with Mr. Jones and have misplaced his original calculations and notes that he worked-out in the little booklet for which he wrote the “Letter of Introduction”. My Bad!

That was long ago, and now after many adventures and quests - geographically, philosophically, and spiritually - this matter has continued with me, remaining as a personal responsibility to share as much with those who have inquired about such matters.

I have attached a couple simple graphics meant to perhaps illustrate SG dynamic.



(Frame 21) A Simple 2-D illustrations of ways see SG as a dynamic model. (Left Frame) Suggesting polarity, direction of motion and interface between distinct areas (wrap around) -

primary field configuration. Sketches, meant to help visualize internal contrasts - variations in properties involving structured dynamics. Perhaps leading to development of more sophisticated models of spontaneous interaction and dynamic gain. (Center Frame) A simplified model involving compound directional movement & velocities ( $v$ ), given that velocity is measured in reference to its nearest point of reference ( $R$ ). So that in one place the product of contrasting velocity cancels each other to equal zero, i.e., relative Mass ( $M$ ), while at other moments the sum of compound velocity multiplied, i.e., relatively energetic ( $E$ ). Suggesting: a uniform - moving system wherein both Energy and Mass are simultaneously present. (Right Frame) If it were possible - to capture a freeze-frame image of the internal interactions within a nucleus of an atom.

### **Atomic Structure and Dynamics:**

The components of atomic structures do not travel in simple spins. Rather, the combined fields/particles of a particular sub-atomic shell travel a circuitous route through consecutive stations of geometric frameworks, primarily that of one or another of the Five Platonic Solid, i.e., frameworks. The activities of an adjacent shell may shift to operate according to yet another of the Platonic frameworks as they logically hand-off field influences. In all, they act in precise and logical manners - synchronized exchanges between internal and external fields - shells. They may be seen to travel opposite directions by some measures if logic and synchronization choose. And

so forth, to compound within shells of the dynamic structure, while also extending field influences beyond a particular shell, or atomic structure to share influences between adjacent atoms or groups of atoms continuously throughout the continuum of energetically exchange +/- bonds inhabiting structure. All governed by progressive frameworks and dynamics that give way to endless variations of expressions of orderly continuum. Mass is where concentrations of energy interlace at intersect of geometric frameworks.

A Striking Illustration: An intriguing illustration, taken from contemporary Russian research.



Interpreted as plasma fields as they coalesce in the process a self-organizing into a more complex system of energetic dynamo. Gathering and/or unfurling fields of forces, as they emerge from or are falling back into latent potential of the “void”. Remarkable conceptual graphics (reminiscent of SG / SP)

wonderfully depicted.

Incidentally: While in Moscow during the early 90s, I visited a major mathematical (topology) department, where I met with a department head – too advanced in the fields of knowledge - beyond my technical and language skills for us to have a meaningful exchange. Nevertheless, I left a small notebook of drawings with notes about my assertions. Here, I am not saying anything more than that. Years later, while scanning through a Russian research web site, I came across this stunning illustration, explained via Cyrillic writing. I didn’t investigate further. Research and discoveries regarding the intimate workings of force and form are nothing new. Note: Russia’s are not the enemy, lest we make it so. Otherwise, better all-around to be good neighbors.

The Big Bang Theory: Or perhaps - A Sudden and Orderly Development - an event at the onset of cosmos, once set in process developed both internally and externally, both structurally and energetically an unbroken continuum, i.e., unified micro and macrocosm. Together, they perpetually interlace throughout cosmos, all governed by the laws of physics in concert with

geometric order, pattern and progression occupying the time / space continuum. A self-exemplifying – self-propagating creative process.

“In The Beginning”: *“And the world (consciousness/awareness/being) was without form and void; and darkness was upon the face of the deep.”* Arguing; that “void” does not strictly mean absolute nothingness. Rather, a state of existence without commonly discernable characteristics - no formal frames of reference, light vs dark contrast, nor measurement of time. Nevertheless, the pre-creation state necessarily consisted of something - as logic, God, and we all should know - *You can't get something from nothing!* So! The “void” surely must consist of something along the lines of an immeasurable reservoir of abstract latent potential, as precursor to what would thereafter come to be.

Awareness: The process and properties that gave place to the cosmos, including this natural world, are essentially the same, right down to you and I as we dwell here in the midst of it all. Consciousness (awareness) too is a property of the same, not only unique to us, though perhaps particularly strangely so in human nature and curiosity. The need to know the how and why, and our purpose in being.

A telling of my personal quests may be somewhat interesting, though this is not just about me, as it has to do with those who came before, who laid the foundations of reason, logic, and facts, the rigors of sure knowledge that distinguish science from systems of unsubstantiated human beliefs. Rather to focus on system formal knowledge (facts) established over millennia, built upon to become the vast edifice of today's scientific knowledge. Knowledge ideally opened to all, not limited by nation, race or creed – a broad and diverse collection of interrelated knowledge, facts and theory, meant to benefit human understanding and the prosperity of all, as we each are part-in-play with all creation. I am grateful for those who added to and shared such knowledge about the more workings of things. Teachings that guide human understanding, giving credence to what is offered here. Understand that I am not the only judge in this matter! Therefore, I am putting this much forward to be judged by those of greater expertise than I, to determine the validity of the assertions touched upon here and perhaps expand upon.

Asserting: That for such a creative process to occur in the first place, it required a perfect cohesive of form and dynamics in mutual play, which at length brought about the universe of matter into which this natural earth is nested. For too vast and intricate for the limitations of words to fully tell. While geometry is a precise and stable language, not subject to looser interpretations. Geometry is better suited for accurately describing the origin and bases of natural form, pattern and progression, which along with the known laws of physics, together are tools suited to describe the dynamics and continuity of natural structures, while mathematics offers ways to accurately equate the relationships between form and dynamics.

Suggesting: That out of the depths of intangible potential, there arose the initial self-exemplifying expression which in turn drew upon the existing latent potential, thereby establishing the essential properties of ongoing form and dynamics, giving birth to spontaneous manifestation. A singular expression, once set in play to self-proliferate in likeness and image all that arose thereafter. For such to occur and sustain, and not immediately collapse, it necessarily involved all the essential virtues of a truly self-creative process. There are those who simply attribute it to an ineffable God, while critical thinkers insist on tangible evidence of such a process.

The Exception: In all, we are part-in-play and observers of a complex reality, one that includes a built-in contradiction to the purely creative process, that acts contrary to the otherwise spontaneous creative process. It occurs when local aspects of orderliness happen to fall out of order, losing sync with the greater whole of things - set adrift as it were - unsustainability - chaos - a process of decay on the way back again into intangible void. Such may simply dissolve into oblivion, or perhaps when more intertwined systems become overwhelmingly corrupt, they may collapse more dramatically, as a Black Hole in the time / space continuum. Such is simply a matter of recycling the inviable. Ultimately: nothing is lost, while the greater scheme of things continues - finite vs the infinite

The same combination of creative vs destructive processes continues and is observable throughout the natural world, the same processes are deeply intertwined in human nature. Within our human nature we inherit a particularly compound awareness of creative vs destructive possibilities, and ability to choose and affect things, both individually and collectively, in one way or another.

Freewill and Responsibility: It is not a matter of deferring to some notion of God beyond our comprehension, for universal consciousness resides within each of us, along with an intuitive understand of the creative vs destructive drama seen throughout human endeavors. Science and scientists are often deemed exclusive, thereby deflecting responsibility, in that current science does not clearly acknowledge the existence of all pervading universal law that governs this reality, thereby obfuscating responsibility, while taking liberties to investigate and dabble into all manners of things both creative and destructive potential. While the stated aspiration of true science is to ascertain the existence of just such law, law that if actually understood in its entirety would hold us to the promise of serving the betterment of humanity. Science asked for tangible evidence of law and order, whereas *scroll geometry and physics* offers evidence of just such law, pointing to both creative and destructive. While built-in freewill implies the rights of personal choices along with personal responsibility for the consequences, and the direction of humanity. Truth, if science and scientists were truly honest and logical would strongly point to endeavors more strictly of creative in nature. Irrefutable Law punctuates this point.

Examples of human confusion and ignorance, assisted by “science” are ever more epidemic throughout this human drama, and which it would be far wiser to curtail.

The one wiser than any Solomon - Jesus Christ - upon being innocently crucified pointed to reconciliation over ignorance “Forgive them for they know not what they do!” A statement extending beyond what was being done to Him personally, a general expression of grace and mercy, one we would do well to learn from, lest we continue to ravage this good earth and all who dwell here!

Science insisted on answers to the origin and cause of creation, and science is responsible for what it knows and what it does with it! Science has opportunity to fulfill its promises to serve the betterment of all. True creativeness has no limits - so let's not be stupid.

Each in His Own Tongue:

*“A fire-mist and a planet,  
A crystal and a cell,  
A jelly-fish and a saurian,  
And caves where the cave-men dwell;  
Then a sense of law and beauty  
And a face turned from the clod -*

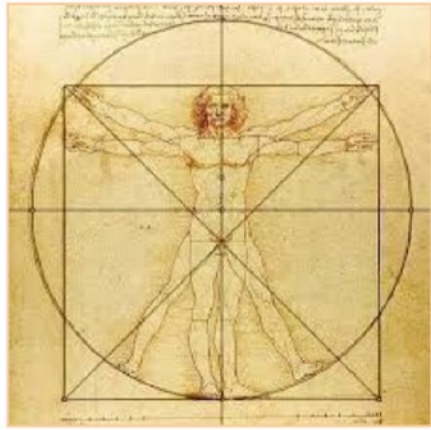
*Some call it Evolution,  
And others call it God.*

*A haze on the far horizon,  
The infinite, tender sky,  
The ripe rich tint of the cornfields,*

*And the wild geese sailing high —  
And all over upland and lowland  
The charm of the golden-rod —  
Some of us call it Autumn  
And others call it God.*

*Like tides on a crescent sea-beach,  
When the moon is new and thin,  
Into our hearts high yearnings  
Come welling and surging in —  
Come from the mystic ocean,  
Whose rim no foot has trod, —  
Some of us call it Longing,  
And others call it God.*

*A picket frozen on duty,  
A mother starved for her brood,  
Socrates drinking the hemlock,  
And Jesus on the rood;  
And millions who, humble and nameless,  
The straight, hard pathway plod, —  
Some call it Consecration,  
And others call it God. – By William Herbert Carruth:*



26

MAN

—

PURPOSE

—

VIRTUE

*Good is Good!*



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*Amen!*