

Paths to Chaos, or Paths to Glory? – Paper II

Questions, of course, arise as to how long such conditions could exist without a new mode emerging.

In the concept of the Black Hole, we seem to extrapolate that concentration under Gravity literally “to infinity”

Indeed, the end of the Universe is said by some to be when ALL the Matter in the Universe disappears into a single, Final Black Hole – a Singularity of zero extension, which nevertheless “consumes” absolutely everything into this dimensionless “dot” leaving absolutely nothing!

Ah! The wonders of mathematical extrapolation!

But, from present day experiments, we KNOW that an analogous situation with atoms dashing about as a gas would, if the available energy was lowered, suddenly condense into a liquid. And with further lowering would then “freeze” into a tightly ordered pattern as a solid. So, even with a fairly simple situation, proximity and energy naturally restructure things into different modes of organisation.

Now, I am aware that we can explain such things, and that our units are by no means simple – they are atoms, but my point is that Reality seems to display such modes or forms as natural consequences of changing “situations”.

It would therefore be my contention that such modes are natural at all levels. The question is what precipitates such modes? Why do they occur?

One feature of all investigated Reality is its oscillation between what can only be called Stability and Instability. There seem to be modes that are to some extent stable. That means that even though disturbances can be inflicted upon such situations, they tend to remain essentially the same. They have a propensity to absorb disturbances without them causing their form to dissociate.

On the other hand, however, NO modes are eternal.

In spite of their consummate Stability, even the most stable forms can be cumulatively undermined, and a situation reached in which they collapse, fade away and indeed vanish. The containment of activity within a given form can no longer be continued. The forces involved destroy the old mode.

Yet, universal chaos does NOT ensue. The norm is for another, different, yet stable configuration to coalesce (to emerge) from the tumult of destruction, and become established as the new stability.

Reality does seem to produce stable, persisting, though still temporary modes. The remarkable thing is that no new stability can be predicted out of the old stability. On first occurrence, each and every such mode is inexplicable, or to be more accurate – unpredictable from its antecedents. And, surprisingly too, new modes deliver new entities, with new properties, which allow entirely new processes to also arise.

Ultimately, from seemingly inert atoms we do, in time, get Life!

Could that ever have been guessed, given only what had gone before?

Of course not! Not only does Reality change and “develop”, it also generates ever more potential-filled modes. It progresses!

The Source of Change

Now the points made above are all well and good, but you still have to ask, “Why?”

Why indeed, should it be so? What causes the generation of ever new modes, and multiplies the potentials at every transition?

It can only reside in the holistic nature of Reality as is!

If, instead of the pluralistic conception of the World, built step by step from fundamental parts and eternal laws, we have instead to consider a world of consuming variety, we get a very different scenario, and a very different trajectory, which both is the result of variety, and yet is also its source.

We have to **start** with diverse processes which are all happening **simultaneously**, and produce myriads of different things, which inevitably affect one another all the time.

Isolating any one process from all the others is always a fiction. Each and every one exists within the given tumult, and is its partial result.

Instead of Parts arising independently from one another, with their own precursors and causes, we have to consider that at all times there is a chance that processes will come into contact and affect one another significantly. Such a diverse version of Reality cannot but **select** from adjacent processes all the time. We don't have simple trajectories EVER, but a constant intertwining, and affecting, of multiple, simultaneous processes, so that the CAUSE of each and every thing is the WHOLE mix.

Holism is usually simplified to "everything affects everything else", but that says almost NOTHING, or at least makes analysis impossible.

But Reality is NOT total Chaos by any means.

In spite of its nature it produces Form everywhere and all the time. Its total lack of external control, does NOT mean that it results in zero forms and total randomness, but, on the contrary, it results in the very opposite. It leads to natural development. It leads to ever new forms, which, for a time, persist.

Now, this seems diametrically opposite to Mankind's discovery that without Control NOTHING can be achieved. Reality as described here seems to indicate that nothing can actually be isolated, extracted and studied in the World as is, and perplexingly, that our wonderful methods of Control and pluralistic study CANNOT reveal Reality, but man-devised and controlled islands of control, in which "things" and "laws" can be derived and used.

We have a contradiction which must be addressed.

Mankind's invention of Plurality and his increasing ability to Control, has led him to undertake "making things happen" **to order**, and **for use**. It has allowed him to define and maintain "theatres of operation" within which he can partition Reality into "independent Parts"

The natural stabilities and evident Modes of unfettered Reality certainly helped in his efforts and convinced him of revealable Order, but Mankind did much more than "ride the natural stabilities". He imposed his own versions by truly prodigious Control. He found that he could "nail down" most conditions to reveal "embedded relations", BUT, in so doing, what he revealed was NOT what he thought he had.

He had engineered Domains of Reality, walled off from its usual unfettered and natural modes of stability. He established his own stabilities in constructed "localities", in which the holistic complexity was drastically reduced, and he could extract and even abstract relations into what he assumed were the actual building blocks of Reality.

The confirmation of these assumptions was established by successful USE of his extractions.

But, earlier in his history, his successful use was **hardly ever possible**. In spite of his extractions, he could NOT dependably use them until he realised that they would only work if he replicated the conditions under which he had extracted them, into the situations wherein he required to use them.

Mankind found a way to manipulate Reality by building walled-localities wherein he was IN CHARGE. His conquest of Reality started in his conception of such controlled plots. The trouble was that each such "plot" was constructed for a particular extraction and use. So, for every extraction he was forced to construct its own locality.

He eventually called them Domains of Applicability (as if they were natural areas of Reality). But they were as natural as "Walled cities" on the Mesopotamian Plain.

They were totally unnatural and required constant maintenance of conditions. While ever this could be achieved, the "laws" could be reliably used and would produce what they were intended to produce..

Man's conceptual conquest of Reality was miraculously mirrored in his physical territories – his "owned" pieces of the Earth.

(1,239 words)