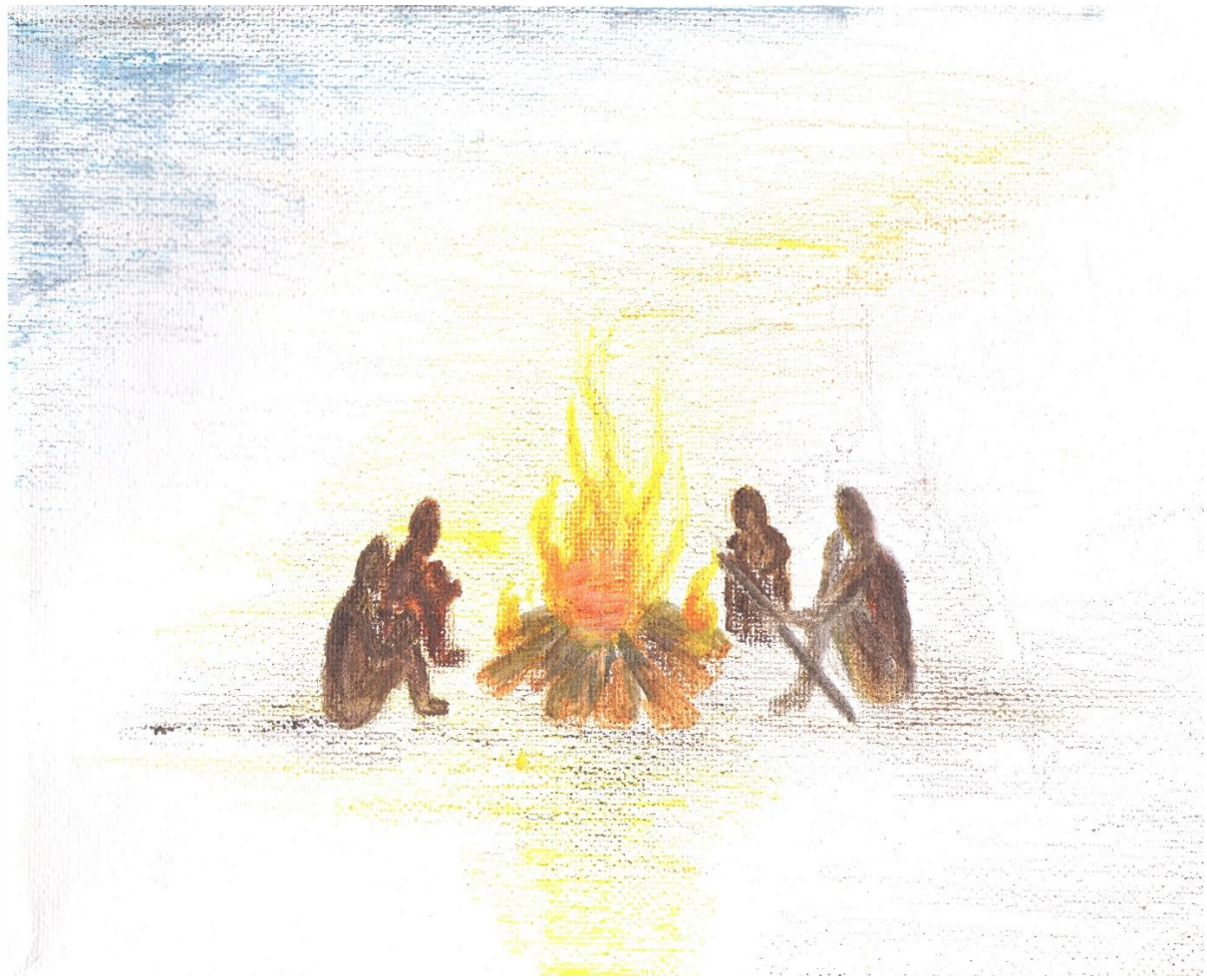
Bring back the Spirit – Leaving in Style – Variation and Evolution

By Dr. rer. nat. habil. Norbert Schwarzer

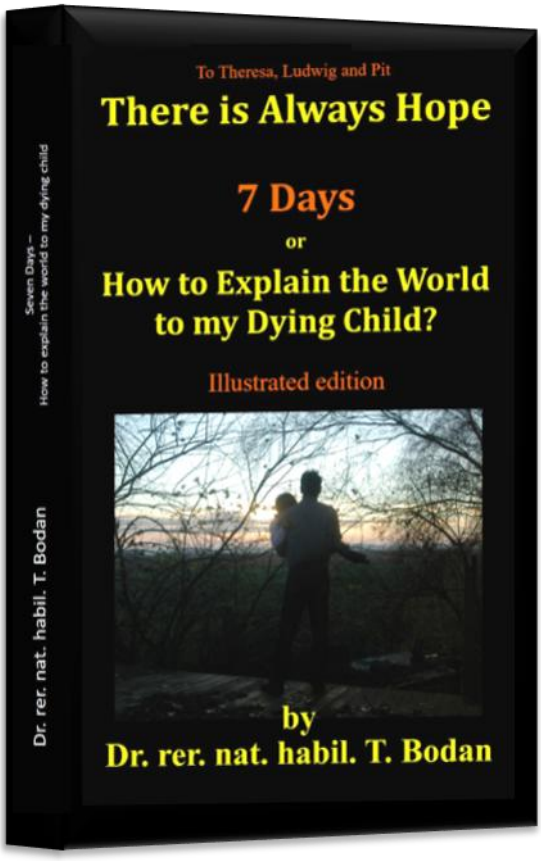
Bring back the Spirit

We have seen that a "theory of everything" (e.g. [1] and references given there or – more complete [2]) presents us with a universe in which not only is everything interconnected, but—due to the wave-like nature of absolutely everything and the possibility of solutions that are devoid of volume or are of "non-real" character —every single object possesses the potential to be, in some sense, "ensouled." It almost seems as though those indigenous peoples who made this very perspective the cornerstone of their cultural and spiritual identity—living in harmony with their environment—grasped the essence of the world far better and more truthfully than all of modern science combined.



“What is consciousness?” by Livia Schwarzer (when she was 12 years old)

Leaving in Style (see [3])



Cover from: T. Bodan, „7 Days – How to explain the world to my dying child“, illustrated version, Self-published, BoD Classic, ISBN 9783752639728

What does it mean
to be all smart
to only wish
and get it all
to come and see and win
with just one call
and efforts so thin?

What does it mean
to be admired and praised
for something too easy
and seen almost as waste?

What does it mean
to be all known
to snip the fingers and get support
A fish in a swarm
no idea where it's heading
no gist, but who cares as long as the current it warm?

What does it mean
to be hated
enemies wherever you go?
because so clear the thought
and too honest the mind
always enough to be everyone's foe.

Nothing does it mean
And nothing will it ever
I do not want to be
for all this rubbish THEY call life
not for all the riches
and the time is running
I see no need to strive.

But if you alone
would mourn a bit
when I'll stop to feel the pain
then – so I think –
my life was not in vain

Variation and Evolution

$$G_{\alpha\beta} = g_{\alpha\beta} \cdot F[f] \quad \rightarrow \quad \delta W = 0 = \delta \int_V d^n x \sqrt{-G} \cdot R^* \tag{1}$$

Here G denotes the determinant of the metric tensor from (1) and R^* gives the corresponding Ricci scalar. Performing the variation with respect to the metric $G_{\alpha\beta}$ results in:

$$0 = \left(\boxed{R_{\alpha\beta} - R\frac{g_{\alpha\beta}}{2}} - \frac{1}{2F}\left(\begin{array}{c} F_{,\alpha\beta}(n-2) + F_{,ab}g_{\alpha\beta}g^{ab} + F_{,a}g^{ab}\left(g_{\beta b,\alpha} - g_{\beta\alpha,b}\right) - \\ F_{,\alpha}g^{ab}g_{\beta b,a} - F_{,\beta}g^{ab}g_{\alpha b,a} + F_{,d}g^{cd}\left(\begin{array}{c} g_{\alpha c,\beta} - \frac{1}{2}ng_{\alpha c,\beta} - \frac{1}{2}ng_{\beta c,\alpha} \\ + \frac{1}{2}ng_{\alpha\beta,c} + \frac{1}{2}g_{\alpha\beta}g_{ab,c}g^{ab} \end{array} \right) \end{array} \right) + \frac{1}{4F^2}\left(F_{,\alpha} \cdot F_{,\beta}(3n-6) + g_{\alpha\beta}F_{,c}F_{,d}g^{cd}(4-n)\right) + (n-1)\left(\frac{1}{2F}\left(\begin{array}{c} 2\Delta F - 2F_{,d}g^{cd}{}_{,c} \\ -\frac{n}{(n-1)}F_{,d}g^{cd}g^{ab}g_{ac,b} \end{array} \right) + \frac{g^{ab}F_{,a} \cdot F_{,b}}{4F^2}(n-6) \right) \cdot \frac{g_{\alpha\beta}}{2} \right) \delta G^{\alpha\beta} \tag{2}$$

The fundamental variational task of the extremal principle – assuming it to govern our universe – is an integral and the Quantum Gravity Field Equations (see equation (2) in the figure below) are only giving one option to fulfil this task. We already discussed the possibility of g=0 or G=0 space-times but looking closely at the whole equation, we also see that it could also be the variation of the metric tensor assuring the whole integral to vanish. In this case one might even obtain equations of universal elasticity as we have derived in [4, 5]. But the even more interesting aspect is that this variation field might actually stand for something real. Here is an idea:

Variation = Trial and Error = Mutation and Evolution

References

[1] N. Schwarzer, “Do We Have a Theory of Everything – One Pager”, 2025, a SIO science paper, www.siomec.com

[2] N. Schwarzer, “Fluid Universe – The Way of Structured Water; Mathematical Foundation” , 2026, a Jenny Stanford Pub. mathematical foundations book, ISBN: 9789815352153

[3] T. Bodan, „7 Days – How to explain the world to my dying child“, illustrated version, Self-published, BoD Classic, ISBN 9783752639728

[4] N. Schwarzer, "The World Formula: A Late Recognition of David Hilbert ‘s Stroke of Genius", Jenny Stanford Publishing, ISBN: 9789814877206

[5] N. Schwarzer: “The Math of Body, Soul and the Universe”, Jenny Stanford Publishing, ISBN 9789814968249