

On Quantum-holographic Framework of Psychosomatics & Spirituality

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Abstract

The subject of this paper is quantum-holographic foundations of psychosomatics & spirituality. This is of special importance due to the increasingly widespread application of integrative medicine in developed countries – since contemporary research into psychosomatic diseases indicates the necessity of applying holistic methods (with a focus on the body's acupuncture system & consciousness), oriented towards treating man as a whole and not diseases as symptoms of disorders of that whole, implying their macroscopic quantum origin – with significant global psychosomatic implications about the necessity of including the three front lines of integrative psychosomatic medicine. The aforementioned research is also in line with the reawakened scientific interest in researching the phenomenon of consciousness in recent decades (with hints of the emergence of a great synthesis of two modes of cognition, rational-scientific & creative-religious, within the framework of the quantum-holographic paradigm) – where the role of the individual becomes irreplaceable due to the influence & concern for the collective mental environment, which is certainly a fundamental issue of mental hygiene & civil decency, i.e. spiritual & civil morality.

Keywords: Acupuncture System; Consciousness; Integrative Medicine; Psychosomatics; Quantum-holographic Informatics; Spirituality

1. Introduction

Despite the enormous material & mental resources engaged in biomedical research & health care, people's health is threatened by numerous psychosomatic diseases, which find fertile ground in today's man exposed to daily stress. Since modern partial methods have not shown the desired effectiveness in prevention / treatment of psychosomatic disorders, new approaches are necessary, which will include the methods of integrative medicine, oriented to the holistic treatment of the human being as a whole & not diseases as symptoms of disorders of the whole, implying their deeper quantum-holographic origin. The focus of these holistic methods is the acupuncture system & consciousness, closely related in integrative medicine, with the biomedical ideal of holistic prevention & control / preservation of health at all levels (environment / organism / organ systems / organs / tissues / cells) [1-11].

The aforementioned research is also in line with the reawakened scientific interest in the fundamental research of the phenomenon of consciousness in recent decades [4-55], with hints of the emergence of a great synthesis of two modes of cognition, rational-scientific & creative-religious, within the framework of an expanded holistic quantum-holographic paradigm – where the role of the individual becomes irreplaceable due to the influence & concern for collective mental environment [4-11].

This presentation is organized as follows: Introductory section (motivation for establishing quantum-holographic framework); Second section (quantum-holographic foundations of psychosomatics); Third section (quantum-holographic foundations of spirituality); Fourth section (syncretic reflections on spiritual meaning of human life); Fifth section (conclusions).

2. Quantum-Holographic Foundations of Psychosomatics

The prevailing scientific paradigm is that information processing at the level of the central nervous system takes place through hierarchically organized & connected neural networks [7,8,56-59]. This hierarchy of biological neural networks appears to descend all the way down to the subcellular cytoskeletal level, that some researchers believe represents the interface between the neural & quantum levels [60] – which has recently been shown to have a mathematical formalism analogous to Hopfield's neural network in Feynman's propagating version of quantum mechanics, being the basis of quantum neural holography [7,8,56] [that allows at the output of the Hopfield-like quantum-holographic neural network successive reconstruction of the wave functions of the memory states (complete, both amplitude & phase!) when recognizing the wave functions of the states shown at its input (which is the basis of every holography, but here it is more simplified compared to standard laser holography, which requires so-called coherent reference & object laser beams)].

This analogy also opens an additional fundamental question, how a classical parallel processing level emerges from a quantum parallel processing level, which is also a general problem of the connection between quantum & classical levels in quantum theory of decoherence [7,8,61,62]. The same question is closely related to the fundamental nature of consciousness, whose indeterministic properties of free will [5-10,17,18] and its other holistic manifestations (the permeation of the body by consciousness [19,20], transitional states of consciousness [5-10] & altered states of consciousness [5-10,21]) – indicate that some manifestations of consciousness must have a deeper quantum origin, with significant psychosomatic implications.

Namely, as shown by the quantum-coherent characteristics of the Russian-Ukrainian school of microwave resonance therapy (MRT) [63-65] (highly resonant microwave sensory response of the diseased organism; biologically effective non-thermal microwave radiation of extremely low intensity and energy; negligible microwave energy losses along the acupuncture meridians), the acupuncture system is the only manifested macroscopic quantum system in our body (while the brain seems not to be [66]) – which today represents the basis of integrative medicine [4-10,63-65].

And since recent theoretical research shows that every quantum system has a formal mathematical structure of an associative quantum-holographic Hopfield-like neural network [54] (cf. **Figure 1**) – then memory attractors of the acupuncture network can be treated as psychosomatic disorders that represent an electromagnetic microwave (EM MW) quantum-holistic record (which can only be erased holistically, as indicated by the extremely high efficiency of MRT-therapy [4-7,63-65], that removes even the local information about psychosomatic disorders) – which can represent the basis of (acupuncture temporarily reprogrammable!) quantum-holistic local psychosomatics [4-10]. Namely, according to Tibetan traditional medicine [67], the acupuncture procedure must be repeated every few months – probably as a consequence of the patient's renewed mental burdens from his mental transpersonal environment, which remained un-reprogrammed at the level of quantum-holographic collective consciousness, which is also supported by Tibetan pulse diagnostics based on 20 pulses, which enables precise diagnosis of psychosomatic disorders not only of patients but also of their family members and enemies).

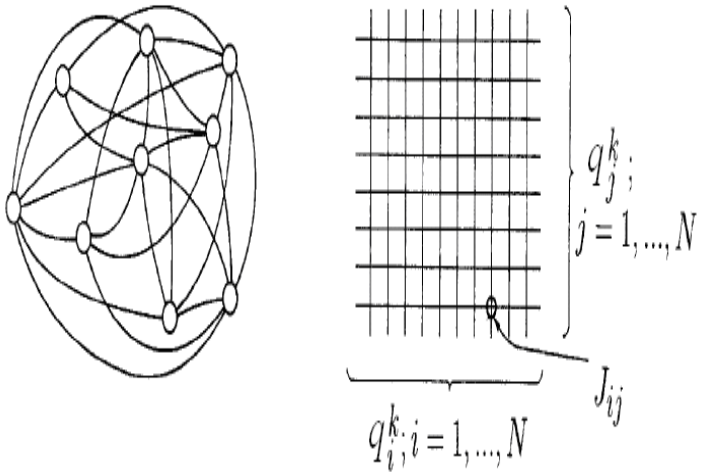


Figure 1(a). Diagram of Hopfield's neural network (top left) & corresponding memory matrix $\mathbf{J}$ (top right).

$$J_{ij} = \sum_{l=1}^P q_i^{k_l} q_j^{k_l}$$

$$q_i = \sum_{j=1}^N J_{ij} q_j$$

$$E_K = -\frac{1}{2} \sum_{i=1}^N \sum_{j=1}^N J_{ij} q_i q_j$$

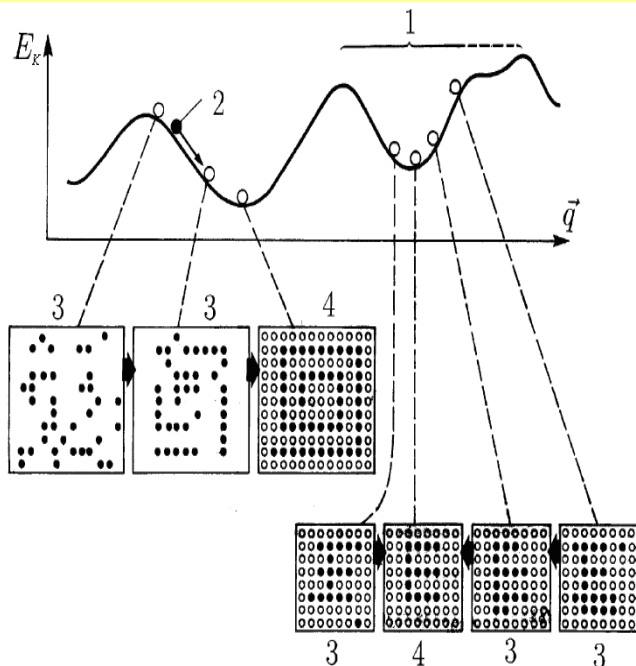


Figure 1(b). Energy-configuration hypersurface of Hopfield's neural network (below left):

- 1 - Basin of attraction;
- 2 - Momentary state of the network;
- 3 - Nonstable configuration;
- 4 - Attractor pattern, tj. stable configuration;

(cf. Figure 2 and ref. [56]), where

Peruš's Classical vs. Quantum analogies:

$$q \Leftrightarrow \phi, \quad q^{k_l} \Leftrightarrow \phi^{k_l}, \quad J \Leftrightarrow G$$

The same could apply to lower hierarchical quantum-holographic macroscopic quantum cellular enzyme-genomic level, which could function at the level of continuous quantum-conformational quantum-holographic-like molecular recognition [62]. As a consequence, due to the quantum-holographic feedback effect of the EM field of the acupuncture system on the cellular enzyme-genomic level (so-called macroscopic "downward causation"), quantum neural holography combined with quantum decoherence could be a very significant element of **feedback-coupled bioinformatics**, from the level of the cell to the level of the organism & further to the level of collective consciousness [5-10] (cf. **Figure 2**) – which may be related to similar ideas of general systems theory applied to biological systems, with well-known open problem of "emergent control" of higher hierarchical levels over lower ones [68,69].

Finally, according to our quantum-holographic theoretical framework all holistic acupuncture-based & consciousness-based approaches & techniques could be treated as quantum-informational therapies, by imposing new bioresonantly exciting healing boundary conditions in the energy-state space of the (open) acupuncture system / (individual) consciousness. But, when this process is hindered by transpersonal entangled blockages in the energy-state space of EM field of the (open) acupuncture system / (individual & collective) consciousness – then memory attractors of quantum-holographic network of field-related collective consciousness should be removed too (via bioresonantly exciting prayer or circular psychotherapies from all relevant meta-positions included in the problem, to disentangle energy-informationally all mental addresses included in the problem, with final goal to achieve permanent healing i.e. spiritual integration of personality [5,10], cf. **Figure 2**).

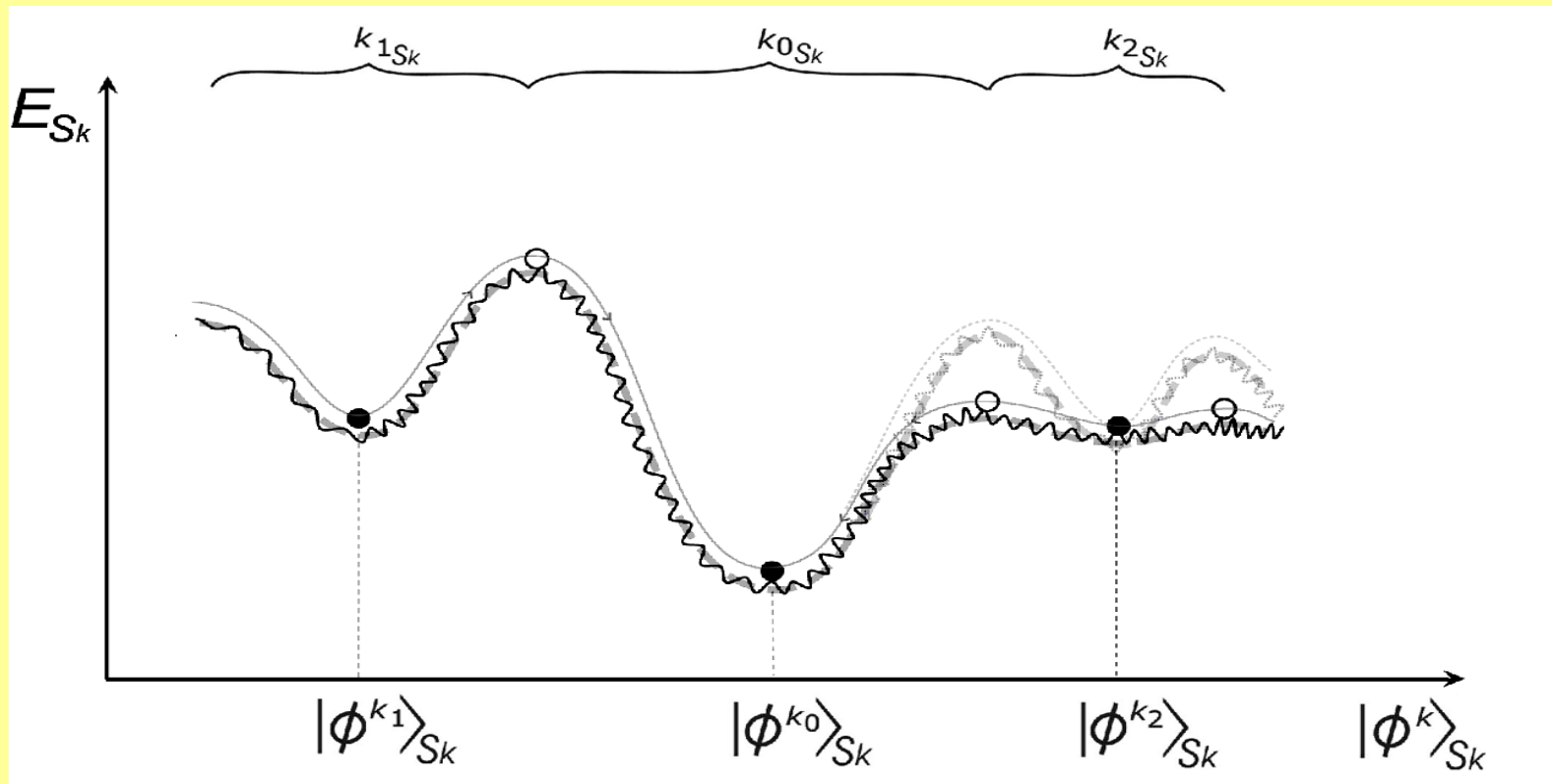


Figure 2. Schematic presentation of adaptation of memory attractors in energy-configuration hypersurface of **quantum-holographic memory / propagator** of various hierarchical levels of biological **macroscopic open quantum system(s) S_k** [5] (**local cell's biomolecular protein / target, local acupuncture system / consciousness, or nonlocal out-of-body consciousness / Collective consciousness**). This implies **necessity** of quantum-informational successive **bioresonant balancing** of all unwilling side memory attractors (like ϕ^{k_2} in the figure), which would otherwise cause development of **psychosomatic diseases** on individual level & **interpersonal fights** in this & further generations on collective level.

3. Quantum-Holographic Foundations of Spirituality

The previous analyses also imply necessity to focus on the origins of many psychosomatic problems on underlying prenatal trans-generational levels (cf. [10] and refs. therein) – which can form the basis of quantum-holistic global psychosomatics [5-10], with significant religious / social implications about the necessity of transpersonal spiritually-mediated quantum-holographic erasure of all undesirable collective memory attractors (which, if not reprogrammed by prayer, will otherwise lead to development of psychosomatic diseases or interpersonal conflicts in this and / or subsequent generations, which are transmitted transpersonally & unconsciously).

The mentioned quantum-holographic picture also implies that quantum-holographic hierarchical parts carry information about the whole, which is associated with the Hindu relationship Brahman / Atman, as a whole & a part in which the information about the whole is contained [54] (enabling a subtle quantum-information coupling of different hierarchical levels in Nature [70-72], which is supported by the acupuncture system & its projection zones (ECIWO holographic concept [73]), the discovery of the quantum-holographic influence of language communication on the expression of the cellular genome (by speech-modulation of the illuminating-laser-signal [74]), as well as the origin of miraculous creativity (Tesla & Mozart as 'case studies' [75,76]) & the determinism of History through coupling with the state of collective consciousness ('Bible code' as a set of 'key words' of historical figures [77]).

So, if put in the theoretical context of the fundamental Holographic principle [72], according to which any 3D physical system is isomorphic to the holographic information embedded on its 2D surface, then quantum-holographic informational content of a body could also be contained in corresponding surface layer of vital energy of the astral-mental body (aura), as has been stated in various traditions – in accordance with our quantum holographic framework for psychosomatics & proposed close relationship of the acupuncture system & consciousness (supported by meridian psycho-energy therapies as well, with the rapid elimination of traumas, phobias, allergies & other psychosomatic disorders, by simultaneous emotional-involved intensive visualization of psychosomatic problems & tapping / touching on prescribed acupuncture points [78,79]) – which can also be classified in the broader field of integrative medicine [5-10].

In this respect, the "gauge quantum field theory & quantum gravity correspondence" of any quantum entangled system & created miniature wormhole (i.e. quantum-gravitational Einstein-Rosen bridge) [94] should be pointed out – as note added in proof of our quantum-holographic framework for transpersonal interactions via miniature wormholes. On the other hand, according to our quantum-holographic theoretical framework [7,93], the similar highly-non-inertial transitional processes should be expected in highly non-inertial microparticle interactions in quantum-measurement-like situations (fully equivalent, according to Einstein's Principle of equivalence, to strong gravitational fields – where opening of wormhole-tunnels is expected [95]) – implying that von Neumann's ad hoc Projection postulate is based on quantum gravitational phenomena [7,93]!

Bearing in mind the possibility & effectiveness of transpersonal circular meridian (psycho / energo) therapeutic processes, i.e. from all relevant mentally-addressed meta-positions of other persons participating in the treated trauma [79], this implies that these interactions of trauma-affected persons are quantum-gravitational in nature, through miniature 'wormhole' space-time tunnels (or 'silver cords' from the vital energy of the astral / mental body, extrasensory observable in altered states of consciousness between the heart, stomach or throat chakras of the connected persons; in African-Haitian voodoo magic, a 'silver cord' between the operator and the victim is deliberately created through visualization, while in the Hawaiian hooponopono tradition, the 'silver cord' is cut through visualization and thus removes the traumatic emotional bond – which otherwise naturally exists between the mother and of a child, and it also arises spontaneously by intense exchange of vital energy between relatives, close associates, current and former lovers, friends and enemies, where a post-mortem between a living and a dead person may also persist [5-10]).

Therefore, our theoretical research points to the real nature of transpersonal experiences of various spiritual traditions [21,34,44,45,51-53,67,80-83], supported by modern research [15,22-24,28-43,46-52,73-80,84,85].

So according to theoretically elaborated connection between the acupuncture system & individual consciousness, i.e. EM-ion quantum-holographic Hopfield-like associative neural network [5-9], esoteric notions such as astral body (manomaya, lingasarira, manovijnana, ka, psyche, nephesh, nafs, subtle body, psychic body, soul...) & mental body (vijnanamaya, suksmasarira, manas, ba, thymos, ruach, ruh, noetic body, spiritual body, spirit...) [52,53,80,81] could be biophysically connected to the out-of-body dislocated (connected to the body by a miniature 'wormhole' space-time tunnel, as indicated by extrasensory near-death experiences [30-35]) ionic component of the macroquantum acupuncture system, & to the contained (MW / ULF-modulated current) EM component of the macroquantum acupuncture system, respectively.

In this context, EM-ion condensations in a structured macroquantum acupuncture system would act as distributed centers of consciousness (chakras, acupuncture points, sephiroth, sacred disks...), & we should also point out the possible (unstructured / structured, virtual / real [20]) EM-ion macroquantum nature of vital energy (qi / ki, prana / akasha, mana, ka, pneuma / ether / natura medica / anima mundi, yesod, baraka, Holy Spirit / Uncreated Light, bioenergy / biofield...) – with possible generalizations from EM to a unified field (in accordance with the wider traditional meaning of vital energy, as an all-pervading cosmic quintessence) [37,54,55,80-82].

On these lines, explanation of the long-standing open problems of physical nature of the acupuncture system & consciousness, including exotic transpersonal aspects of vital energy (essentially important for our functioning according to Eastern traditional medicine!) – should be sought on deeper quantum-gravitational level as well.

The exotic aspect of wormhole tunnels & vital energy might be extended to acupuncture channels (with vacuum-like outside inflow of vital energy / prana / qi) – implying that such type of exotic transpersonal communication enables continuously-refreshing interaction between the two mentally-addressed persons [7,93]. This transpersonally stabilizes quantum-entanglement of their acupuncture systems / consciousnesses i.e. prevents dis-entanglement of their macroscopic quantum-entangled non-stationary states by interaction with their local somatic environments (contrary to situation in microworld without such stabilizing mentally-addressing exotic transpersonal effects, where laboratory-created quantum-entangled pairs of particles must be isolated from environment in order to prevent their quantum-decoherence)!

Although the temporal evolution of the collective consciousness is governed deterministically (Schrödingerian or equivalently Feynmanian, since there is no extra-cosmic environment to force the non-Schrödingerian collapse of the quantum-coherent state of the field-connected cosmic collective consciousness & the complementary 'particle' cosmic environment), yet the memory attractors of the collective consciousness can be reprogrammed by merciful prayer for others thus removing the interpersonal burdens of the quantum-holographic Hopfield-like neural network of collective consciousness – through prayer-induced macroscopic vacuum non-encumbered spiritual excitations, as an indeterministic intervention in the otherwise deterministic quantum-holographic evolution of collective consciousness (and complementary incoming individual & collective events), which thus (non-Schrödingerian) sets the necessary essentially new boundary conditions [5-10,93].

This leaves the greatest room for free will & influence on future preferences, & imposes indispensable personal role & concern for the collective mental environment! So, in the context of the above proposed mechanism of prayer – it can really be said that an all-forgiving prayer represents a biophysical basis for the optimization of (quantum) holistic global psychosomatics of collective consciousness (and complementary incoming individual & collective events) [93]!

Let us add that both traditional & modern experiences of local & transpersonal energy healing [5] (by spiritually-excited & mentally-channeled new macro-quantum portions of vital energy & their subsequent mentally-channeled transfer), indicate that meditative visualization imposes new (decoherence-like) quantum gravitational boundary conditions (however, in contrast to prayer, it would not eliminate simultaneously all mentally-loaded addresses, but would balance energy-informationally only one particular client; therefore, in such situations, it is necessary to do circular meditative-healing visualization from all meta-positions involved in the existing conflict, thus eliminating simultaneously all mentally-loaded addresses)!

Hence, in the context of our quantum-holographic theoretical framework, spiritual prayer / meditation practices represent non-unitary source of free will at the level of collective consciousness, which evolutionary increases the responsibility of every individual and the whole human race [93]! This might be possibly the reason for Christianity to insist on repenting & forgiving, as anything else would enhance the existing mental / emotional personal loads and enlarge Evil in the world, dismissing an individual & humankind from the final spiritual ideal of sinless state of individual & collective consciousness!

It is hereby instructive to mention Buddhist interpretation of karma, which occurs not as a result of our spontaneous reaction to the current situation in life, but as a result of the latter justification of our conscious reactions against the others in this situation [96]! In the context of the quantum-holographic predestined life programs mentioned above, this is fully justified because we all (non-consciously) react to current conflicting-encoded life-situations (several hundred milliseconds before we become aware [97]!), but afterwards we have a chance to (consciously) permanently untangle the existing trans-generational conflict by penitent-all-forgiving prayer.

Also, in the context of trans-generational cosmic quantum hologram, although on the level of collective consciousness everything is quantum-holographically predestined – as suggested by experiences of different spiritual traditions [53] & post-hypnotic regressions [33] as well – they also suggest the possibility of optimizing life-programs by spiritual purification. In particular, let us mention Hawaiian ho'oponopono [48] tradition with remarkable reprogramming of the life situations by contextual repenting and forgiving ourselves; or South American ayahuaska [49] and Nigerian Abiku [50] traditions with fascinating spiritual diagnoses and extensions of the predestined-short-life programs; or fascinating world bestseller of Anita Moorjani [91] on spiritual changing her life program with return from clinical death and after a few weeks spontaneous healing of terminal phase of cancer; or contemporary spiritual teaching of Bruno Groening [47] and Christian Mysticism [46,98] with miraculous healing and optimizing life programs! This greatly contributes to our understanding that even most difficult psychosomatic disorders have their roots in the energy-information blockages, and that healing begins by removing them [89,92,93])!

The mentioned quantum-holographic picture also implies two cognitive modes of consciousness, according to the strength of the consciousness-body-environment coupling [5-10,93,99,100]: weak-coupled quantum-coherent direct one (in out-of-body religious / creative transitional and altered states of consciousness, such as prayer, meditation, daydreams, lucid dreams...) & strongly-coupled classically-reduced indirect one (in bodily perceptually / rationally mediated normal states of consciousness, type of sensory perception, logical and scientific reasoning...) – with conditions of mutual transformation. This also explains the fundamentally inadequate information rationalization of direct quantum-holographic spiritual / religious mystical experience (as a problem of the quantum theory of measurement, about the reduction of the implicit order of quantum-coherent (quantum-holographic) superpositions into the explicit order of measurement of classically reduced states [5-10,93,99]).

This is close to the experiences of many shamanistic tribal traditions, which consider that true (quantum-holographic) reality is represented by dreams, and that the (classically-reduced) waking state is a lie / illusion (maya, as emphasized in the traditions of the East [53]). Thus, science closes the circle, re-discovering two different modes of cognition & setting its own epistemological limitations [5-10,93,99,100] – as preserved for millennia in shamanistic tribal traditions, or as described by Patanjali in Yoga Sutras, emphasizing that the mystical experience (samadhi) is 'filled with truth' & that it is 'beyond reasoning & scriptures', while at the beginning of the last century, in Philosophy of Freedom, Berdjaev formulated difference between faith & knowledge as a difference between two ways of knowing, prayer-mediated 'manifestation of invisible things' & rational-mediated 'manifestation of visible things'.

In addition, the necessity of direct quantum-holographic coupling of individual & cosmic collective consciousness in observing the implicit order would require a weak out-of-body quantum-communication coupling of consciousness-environment, i.e. prior reprogramming of all psychosomatic burdens (cleansing from possessive or hedonistic emotional-mental sinful / karmic connections with the world – which would lead to quantum projecting as burdensome 'mental addresses' mentally-channeled tunneled consciousness to the corresponding out-of-body environment, and thus to the classically reduced out-of-body extrasensory observation of the mentally-addressed environment!). So in this context, the effort of mystics of all traditions to first purify the consciousness / soul through spiritual practice (prayer, meditation, ...) and thus reach their final eschatological goal (Kingdom of God, nirvana, ...), i.e. post-mortem salvation of (sinless, unbound) souls [53,54] looks meaningful.

This still leaves room for personal love, the highest manifestation of which is precisely the ability and willingness to constantly and unconditionally forgive (the loved one, and because of him, all others, including enemies) in spiritual prayer and (quantum-holographically subtly interconnected with it) life practice; the same applies to love for relatives and friends [5-10,93].

4. Discussion: Syncretic Reflections on Spiritual Meaning of Human Life

Out of the numerous holistic methods that can help a person to be healthy (quantum medicine, yoga, reiki, bioenergy, chiropractic...) or to get healed [5], prayers are the most holistic approach that can remove trans-generationally all energy blockages in our energy-information system (acupuncture system / consciousness) & our transpersonal environment [86-89]. Other paths are longer & more uncertain, so the soul may not be completely relieved until the moment of death, but end up at a lower level of collective consciousness [34,35,90,91].

The eternal theme of all spiritual-religious traditions is what is the essence of life, why does man live [53]? I think that a person cannot be happy if he is not spiritual, because he is not doing his basic spiritual task – returning to the Divine spiritual source. Although Hinduism has contributed much to the understanding of the structure of our energy-informational system, Christianity has made the main contribution through the discovery that the all-repentant & all-forgiving trans-generational prayer is the right shortcut to the Divine primal source [80].

I have built my holistic point of view through years of research into quantum-holographic foundations of psychosomatics & consciousness, and their broader holistic implications [93]. This way I have created a kind of syncretism to integrate different apparently opposing views, about the fate of the soul before & after death, about the nature of Good / Evil in the context of the degree of non-networking with the collective consciousness, and about modern hypnoregression experiences [33] & dogmatic speculations of various religious teachings & esoteric practices [53].

It seems that all of us during the life are quantum-holographic networked with lower levels of collective consciousness, from which we can & must spiritually disconnect ourselves by prayers [93]. The magnificent task of every soul, with God's help, prayers, which are at our disposal as a powerful spiritual tool for untying. It looks like we cannot do more, but we must not do less either! This is also a multi-millennium subject of speculation of various religious teachings or teleological philosophical considerations, and it belongs to the eternal themes & questions of the cosmogony of various traditions [53]. All this can be also realized collectively, provided that each individual must cultivate both modes of cognition (sensory-rational & creative-spiritual) in combination, because if he does not do this, he does not complete the basic spiritual task, without a chance for the complete release & salvation of the soul, i.e. reaching the state of Theosis.

Hence it seems that Civilization historically lives quantum-holographic predestined burdened programs [33] – and that is why our portion of the collective consciousness is our main target for spiritual cleansing. This is the only way to change the existing quantum-holographic globalist post-truth program of the collective consciousness of Civilization (whose character the mere performers of this work are not even aware, thinking that they are working for the welfare of people), in which Good & Evil, truth & lies are inverted. What a program such actuators are, to express myself in the terms of automation & robotics (let us also remember Tesla [99,101], who said that we are biological automatons, which is not so far from the truth; while in psychology there is so-called Transactional Analysis [102], to explain similar patterns of behavior in similar situations).

That is why the collective consciousness of Civilization should be relieved, with a thorough trans-generational repentance & forgiveness of oneself & everyone else (with a trans-generational erasure of all burdens / sins not only forward but also backwards in time [89]). From a broader holistic angle, the path to the final victory of Good is the global return of spirituality – by redefining the global political, informational and educational goals of Civilization. Because if Evil (as a manifestation of the quantum-holographic burdens of the collective consciousness, and personified in the form of the Sly) is defeated by force, it is only externally transformed & continues to exist in a different historical form (let us only remember the previous historical epochs).

3. CONCLUSION

Thus, one could say that there are three front lines of integrative psychosomatic medicine: (1) spirituality & circular (psycho / ergo) therapies from all relevant meta-positions, with the potential possibility of permanent removal of mutual memory attractors at the level of collective consciousness; (2) (quantum) holistic medicine & non-circular (psycho / ergo) therapies, which temporarily remove memory attractors at the level of the acupuncture system / individual consciousness & prevent or alleviate their somatization, as a consequence of negligence at the first level; (3) conventional symptomatic medicine, which through immunology, pharmacology, preventive diagnostics and surgery on the body level prevents or alleviates the somatized consequences of negligence on the first two levels.

In addition, it could be said that there are two cognitive modes of individual consciousness, according to the strength of the consciousness-body-environment coupling: (1) weak-coupled quantum-coherent religious / creative direct one (in altered and transitional states of consciousness) and (2) strongly-coupled classically reduced perceptual / rational indirect one (in normal states of consciousness) – with significant epistemological / religious implications. The aforementioned research is also in line with the reawakened scientific interest in researching the phenomenon of consciousness in recent decades, with hints of the emergence of a great synthesis of two modes of cognition – where the role of the individual becomes irreplaceable due to the influence & concern for the collective mental environment, which is certainly a fundamental issue of mental hygiene and civil decency, i.e. spiritual and civil morality.

Based on our quantum-holographic framework, I also argue that prayer is a shortcut to the Divine spiritual source, with all-repentant & all-forgiving trans-generational prayers providing optimization of the existing individual & collective life programs. Other ways to reach the Divine are longer & more uncertain, as the soul may end up at a lower level of collective consciousness *post mortem*. Hence the path to the final victory of Good is the global return of spirituality – by redefining the global political, informational and educational goals of Civilization.

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References

1. V. Stambolović (ed.), Alternative Approaches to Health Improvement, ALCD, Belgrade, 2003, in Serbian.
2. <https://www.imconsortium.org>; official website of the Consortium of Academic Medical Centers for Integrative Medicine, founded by the end of 1990s, which includes over 70 highly esteemed US academic health centers and affiliate institutions, in order to transform medicine and healthcare through rigorous scientific studies, new models of clinical care, and innovative educational programs that integrate biomedicine, the complexity of human beings, the intrinsic nature of healing, and the rich diversity of therapeutic systems.
3. M. Bischof, Introduction to integrative biophysics, in: F- A. Popp, L. V. Belousov (eds), Integrative Biophysics (Kluwer, Dordrecht, 2003).
4. Group of authors, Anti-Stress Holistic Handbook, with Fundamentals of Acupuncture, Microwave Resonance Therapy, Relaxation Massage, Airoionotherapy, Autogenic Training, and Consciousness, IASC, Belgrade, 1999, in Serbian.
5. D. Raković, Stress & anti-stress: holistic quantum-informational framework with overview of recommended anti-stress approaches & techniques, Journal of Social and Behavioral Sciences 2(1) (2025), Research Article.
6. D. Raković, A. Škokljević, D. Djordjević, Introduction to Quantum-Informational Medicine, with Basics of Quantum-Holographic Psychosomatics, Acupuncturology and Reflextherapy, ECPD, Belgrade, 2009, in Serbian.
7. D. Raković, Integrative Biophysics, Quantum Medicine, and Quantum-Holographic Informatics: Psychosomatic-Cognitive Implications, IASC & IEPSP, Belgrade, 2009.
8. D. Raković, Fundamentals of Biophysics, 3rd ed., IASC & IEPSP, Belgrade, 2008, in Serbian.
9. D. Raković, On quantum-holographic bases and frontiers of integrative medicine and transpersonal psychology: Psychosomatic, epistemological, and spiritual implications, in: G. Brekhman, M. Sovilj, D. Raković (eds.), Proc. 1st Int. Congress on Psychological Trauma: Prenatal, Perinatal & Postnatal Aspects (PTPPA 2015), LAAC / IEPSP, Belgrade, 2015.
10. D. Raković, On quantum-holographic and trans-generational implications for child development, in: J. R. G. Turner, T. G. N. Turner, O. Gouni (eds.), Prenatal Psychology 100 Years: A Journey in Decoding How Our Prenatal Experience Shapes Who We Become!, A publication of The International Journal of Prenatal & Life Sciences, Cosmoanelixis, Prenatal & Life Sciences, Athens, 2018, Invited Ch. 7, pp. 283-310.
11. D. Raković, S. Arandjelović, M. Mićović (eds.), Proc. Symp. Quantum-Informational Medicine QIM 2011: Acupuncture-Based and Consciousness-Based Holistic Approaches & Techniques, QUANTTES & HF & DRF, Belgrade, 2011.
12. D. Raković, Dj. Koruga (eds), Consciousness: Scientific Challenge of the 21st Century, ECPD, Belgrade, 1995.
13. Lj. Rakić, G. Kostopoulos, D. Raković, Dj. Koruga (eds), Brain and Consciousness, Proc. ECPD Workshop & Symposium, ECPD, Belgrade, 1997.
14. V. Jerotić, Dj. Koruga, D. Raković (eds.), Science – Religion – Society, Faculty of Theology SPC & Ministry of Religion of the Republic of Serbia, Belgrade, 2002.
15. S. Hameroff (ed), Toward a Science of Consciousness, Series of Tucson Conferences, 1994-.
16. R. Penrose, The Emperor's New Mind: Concerning Computers, Minds and The Laws of Physics, Oxford University Press, Oxford, 1989.

17. J. von Neumann, Mathematical Foundations of Quantum Mechanics, Princeton Univ. Press, Princeton, 1955.
18. H. Stapp, Mind, Matter, and Quantum Mechanics, Springer, New York & Berlin, 1993.
19. A. Shimony, in R. Penrose, A. Shimony, N. Cartwright, S. Hawking (eds.), The Large, the Small and the Human Mind, Cambridge Univ., Cambridge, 1995.
20. M. Jibu, K. H. Pribram, K. Yasue, From conscious experience to memory storage and retrieval: The role of quantum brain dynamics and boson condensation of evanescent photons, Int. J. Modern Physics B 10(13-14) (1996) 1735.
21. C. Tart (ed.), Altered States of Consciousness, Academic, New York, 1972.
22. D. Bohm, Wholeness and the Implicate Order, Routledge & Kegan Paul, London, 1980.
23. K. Pribram, Languages of the Brain: Experimental Paradoxes and Principles in Neuropsychology, Brandon, New York, 1971.
24. R. E. Ornstein, The Psychology of Consciousness, Harcourt Brace, New York, 1972.
25. K. R. Popper, J. C. Eccles, The Self and Its Brain, Springer, Berlin, 1977, Chs. E2,3.
26. B. J. Baars, A Cognitive Theory of Consciousness, Cambridge Univ., Cambridge, MA, 1988.
27. F. Crick, The Astonishing Hypothesis: The Scientific Search for the Soul, Charles Scribner's Sons, New York, 1994.
28. R. G. Jahn, The persistent paradox of psychic phenomena: an engineering perspective, Proc. IEEE 70 (1982) 136.
29. R. G. Jahn, B. J. Dunne, Consciousness and the Source of Reality: The PEAR Odyssey, ICRL, Princeton, 2011; and archival publications and technical bulletins of the PEAR (Princeton Engineering Anomalies Research).
30. P. van Lommel, R. van Wees, V. Meyers, I. Elfferich, Near-death experience in survivors of cardiac arrest: prospective study in the Netherlands, The Lancet, 15. Dec. 2001.
31. A. Liptay-Wagner, Differential diagnosis of the near-death experience: which illness cannot be considered as NDE?, Proc. 6th Int. Multi-Conf. Information Society IS'2003, Mind-Body Studies, Oct. 2003, IS, Ljubljana.
32. R. A. Moody, jr., Life After Life: The Investigation of a Phenomenon – Survival of Bodily Death, Harper, San Francisco, 2001.
33. M. Newton, Journey of Souls: Case Studies of Life Between Lives, Llewellyn, Woodbury, 1994.
34. W. Y. Evans-Wentz and Lama Kazi Dawa-Samdup (tr.), Tibetan Book of the Dead: The After-Death Experiences on the Bardo Plane, Clarendon Press, Oxford, 1927.
35. Fr. Seraphim Rose, The Soul After Death, St. Herman of Alaska Brotherhood; Platina, CA, 2009.
36. R. Targ, H. Puthoff, Mind-Reach: Scientific Look at Psychic Ability, Delacorte, New York, 1977.
37. M. A. Persinger, E. W. Tsang, J. N. Booth, S. A. Koren, Enhanced power within a predicted narrow band of theta activity during stimulation of another by circum-cerebral weak magnetic fields after weekly spatial proximity: Evidence for macroscopic quantum entanglement?, NeuroQuantology, 6(1) (2008) 7.
38. J. S. Hagelin, Is consciousness the unified field? A field theorist's perspective, Modern Sci. & Vedic Sci. 1 (1987) 29.
39. M. Talbot, The Holographic Universe, HarperCollins, New York, 1991.
40. B. Rubik, Life at the Edge of Science, Institute for Frontier Science, Oakland, CA, 1996.
41. S. Ostrander, L. Schroeder, Psychic Discoveries, Marlowe, New York, 1997.

42. D. Radin, *Entangled Minds: Extrasensory Experiences in a Quantum Reality*, Paraview, New York, 2006.

43. L. McTaggart, *The Field. The Quest for the Secret Force of the Universe*, Harper Perennial, 2008.

44. Paramahansa Yogananda, *Autobiography of a Yogi*, The Philosophical Library, New York, 1946.

45. Swami Rama, *Living with the Himalayan Masters*, The Himalayan Institute Press, New York, 1978.

46. K. C. Markides, *Fire in the Heart. Healers, Sages and Mystics*, Paragon, New York, 1990.

47. M. Kamp, *Healing the Spiritual Way Through the Teachings of Bruno Gröning*, Monchengladbach, Germany, 1999.

48. J. Vitale, I. Hew Len, *Zero Limits: The Secret Hawaiian System for Wealth, Health, Peace, and More*, Wiley, Hoboken, 2007.

49. Č. Hadži-Nikolić, Entheogenic shamanism: Anthropological category, transpersonal dimension or psycho-therapeutic model, in: D. Raković, S. Arandjelović, M. Mićović, eds., *Proc. Symp. Quantum-Informational Medicine QIM 2011: Acupuncture-Based and Consciousness-Based Holistic Approaches and Techniques*, QUANTTES & HF & DRF, Belgrade, 2011, pp. 351-354.

50. M. Tomšić Akengen, Abiku phenomenon: Spiritual origin and treatment of self-destructiveness, in: D. Raković, S. Arandjelović, M. Mićović, eds., *Proc. Symp. Quantum-Informational Medicine QIM 2011: Acupuncture-Based and Consciousness-Based Holistic Approaches and Techniques*, QUANTTES & HF & DRF, Belgrade, 2011, pp. 344-350.

51. D. Chopra, *Quantum Healing: Exploring the Frontiers of Mind/Body Medicine*, Bantam, New York, 1989.

52. L. Dossey, *Healing Words: The Power of Prayer and the Practice of Medicine* (Harper, San Francisco, 1993).

53. M. Eliade, H. S. Wiesner, I. P. Couliano, *The Eliade Guide to World Religions*, Harper, San Francisco, 1991.

54. K. Wilber, *The Spectrum of Consciousness*, Theosophical Publishing House, 1977.

55. J. Vlahos, *Orthodox Psychotherapy: The Holy Fathers Science*, Missionary School of St. Alexander Nevskiy Church, Belgrade, 1998, Serbian transl from Greek.

56. M. Peruš, Neuro-quantum parallelism in mind-brain and computers, *Informatica* 20 (1996) 173.

57. T. Kohonen, *Self-Organization and Associative Memory* (Springer, Berlin, 1984).

58. D. Amit, *Modeling Brain Functions: The World of Attractor Neural Nets* (Cambridge Univ., Cambridge, 1989).

59. H. Haken, *Synergetic Computers and Cognition, A top-Down Approach to Neural Nets* (Springer, Berlin, 1991).

60. S. Hameroff, R. Penrose, Consciousness in the universe, *A review of the 'Orch OR' theory*, *Physics of Life Reviews* 11 (2014) 39-78.

61. D. Giulini, E. Joos, C. Kiefer, J. Kupsch, I. -O. Stamatescu, H. D. Zeh, *Decoherence and the Appearance of a Classical World in Quantum Theory*, Springer, Berlin, 1996.

62. D. Raković, M. Dugić, J. Jeknić-Dugić, M. Plavšić, S. Jaćimovski, J. Šetrajčić, On macroscopic quantum phenomena in biomolecules and cells: From Levinthal to Hopfield, *BioMed Research International* Vol. 2014, Article ID 580491, 9 pages, 2014.

63. N. D. Devyatkov, O. Betskii (eds.), *Biological Aspects of Low Intensity Millimetre Waves*, Seven Plus, Moscow, 1994.

64. S. P. Siťko, L. N. Mkrtchian, *Introduction to Quantum Medicine*, Pattern, Kiev, 1994.

65. Z. Jovanović-Ignjatić, D. Raković, A review of current research in microwave resonance therapy: Novel opportunities in medical treatment, *Acup. & Electro-Therap. Res., Int. J.* 24 (1999) 105-125.

66. M. Tegmark, Importance of quantum decoherence in brain processes, Phys. Rev. E 61 (2000) 4194.

67. S. Petrović, Tibetan Medicine, Narodna knjiga – Alfa, Belgrade, 2000, in Serbian; see also http://en.wikipedia.org/wiki/Traditional_Tibetan_medicine

68. E. R. Kandel, A new intellectual framework for psychiatry, Am. J. Psychiatry 155 (1998) 457.

69. J. Szentagothai, Downward causation?, Ann. Rev. Neurosci. 7 (1984) 1.

70. M. Rakočević, Universal consciousness and universal code, in: D. Raković, Dj. Koruga, eds., Consciousness: Scientific Challenge of the 21st Century, ECPD, Belgrade, 1995, pp. 264-282.

71. Dj. Koruga, Information Physics: In Search of the Scientific Foundations of Consciousness, in: D. Raković, Dj. Koruga, eds., Consciousness: Scientific Challenge of the 21st Century, ECPD, Belgrade, 1995, pp. 245-263.

72. L. Susskind, J. Lindesay, An Introduction to Black Holes, Information and the String Theory Revolution: The Holographic Universe, World Scientific, Singapore, 2005.

73. Y. Zhang, ECIWO Biology and Medicine: A New Theory of Conquering Cancer and Completely New Acupuncture Therapy, Neimenggu People Press, Beijing, 1987.

74. P. P. Gariaev, M. J. Friedman, E. A. Leonova-Gariaeva, Principles of linguistic-wave genetics, DNA Decipher J. 1(1) (2011) 11-24, and refs. therein.

75. D. Raković, On nature and control of creativity – Tesla as a case study, Proc. 2nd Int. Workshop on Knowledge Federation, Dubrovnik, Croatia, 2010, D. Karabeg, J. Park (eds.), CEUR-WS.org/Vol-822, 2011.

76. F. Holmes, The Life of Mozart Including his Correspondence, Chapman & Hall, 1878, 211.

77. D. Witztum, E. Rips, Y. Rosenberg, Equidistant letter sequences in The Book of Genesis, Statistical Science 9 (1994) 429.

78. R. J. Callahan, J. Callahan, Thought Field Therapy and Trauma: Treatment and Theory, Indian Wells, 1996.

79. Ž. Mihajlović Slavinski, PEAT and Neutralization of Primeval Polarities, Belgrade, 2000.

80. P. Vujičin, States of consciousness in esoteric practice, in: D. Raković, Dj. Koruga, eds., Consciousness: Scientific Challenge of the 21st Century, ECPD, Belgrade, 1995, pp. 89-136.

81. <http://en.wikipedia.org/wiki/Soul>; <https://en.wikipedia.org/wiki/Spirit>

82. <https://en.wikipedia.org/wiki/Qi>

83. M. Milenković, Reiki – The Road to Self, 2nd ed., Booking, Belgrade, 2010, in Serbian; cf. <http://www.reiki.org>

84. <http://www.issseem.org>; official website of The International Society for the Study of Subtle Energies and Energy Medicine (ISSSEEM), founded by the end of 1980s.

85. <http://www.atpweb.org>; official website of The Association for Transpersonal Psychology (ATP), concerned from early 1970ies with the study of humanity's highest potential, and with the recognition, understanding, and realization of unitive, spiritual, and transcendent states of consciousness (making transpersonal psychology the fourth force in psychology, alongside with psychoanalysis, behaviorism, and humanistic psychology, after one of its founders, A. Maslow).

86. D. Raković, My personal quest for the meaning of life and peace of mind: Tesla inspired extended quantum-holographic framework, *International Journal of Cultural Heritage* 10 (2025) 37-43.
87. D. Raković, Quantum-informational macrophenomena in biomedicine and holistic psychosomatics: Quantum-holographic framework, *Psychology and Behavioral Science Int. J.* 19(3) (2022) 556015, Mini Review.
88. D. Raković, Tesla inspired quantum-holographic non-local epigenetic clue for improving integrative medicine & transpersonal psychology. *Psychology and Behavioral Science Int. J.* 21(4) (2024) 556070.
89. D. Raković, On Tesla-inspired extended quantum-holographic framework for reprogramming macro-quantum correlations of individual and collective consciousness, *J. Human Psychology* 2(1) (2024) 14-19.
90. D. Raković, Reflections on Dr Eben Alexander's book "Proof Of Heaven" (2012): Broader implications for quantum-holographic psychosomatics, *Journal of Psychiatry Research & Reports* 2(2) (2025) 1-7; also presented at 4th Webinar at International Conference on Public Health and Health Care Research, November 03-04, 2025, at Bangkok, Thailand.
91. D. Raković, Reflections on Anita Moorjani's book "Dying To Be Me" (2012): Broader implications for quantum-holographic holistics, *Psychology and Behavioral Science Int. J.* 23(3) (2025) 556111.
92. L. L. Hay, *You Can Heal Your Life*, Hay House, Carlsbad, 1984.
93. D. Raković, On extended quantum-holographic framework for consciousness and free will: Round trip from science to spirituality, *Int. J. Prenatal & Life Sciences* 3(3) (2019) 27, DOI: 10.24946 / IJPLS; Reprinted in: J. R. G. Turner, T. G. N. Turner, and O. Gouni, eds., *Whole-Self Approaches in Psychology & Medicine*, Cosmoanelixis, Athens, 2020, Proc. 1st Int. Meeting-Conference for Whole-Self Prebirth Psychology, Philosophy & Education, 13-15 Sept. 2019, Grootebroek, NL, Invited tutorial.
94. J. Maldacena, L. Susskind, Cool horizons for entangled black holes, *Fortschr. Phys.*, 61(9) (2013) 781-811.
95. K. S. Thorne, *Black Holes and Time Warps: Einstein's Outrageous Legacy*, Picador, London, 1994.
96. B. P. A. Payutto, transl. B. Evans, *The Essential Buddhadhamma. The Teachings and Practice of Theravada Buddhism*, Shambala, Thailand, 1971.
97. D. C. Dennett, *Consciousness Explained*, Little Brown, Boston, 1991.
98. K. C. Markides, *The Mountain of Silence: A Search for Orthodox Spirituality*, Doubleday, New York, 2001.
99. D. Raković, Tesla as a case study of quantum-holographic correlations of individual and collective consciousness: Creative implications, *Journal of Social and Behavioral Sciences* 2(1) (2025), Short Communication.
100. J. Shear, Mysticism and scientific naturalism, *Sophia* 43(1) (2004) 83-99.
101. N. Tesla, *My Inventions: The Autobiography of Nikola Tesla*, Hart Brothers, Williston, 1983, the original six-part series published in *Electrical Experimenter Magazine* in 1919 has been republished in this book.
102. E. Berne, *Games People Play – The Basic Handbook of Transactional Analysis*, Ballantine Books, New York, 1964.

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Professor Dejan Raković graduated *Engineering Physics* at the *Faculty of Electrical Engineering* in Belgrade as in 1974, and completed his *M.Sc. thesis* in 1977 in the field of *quantum theory of atomic many-electron correlations* (under supervision of *Prof. Djordje Živanović* and *Prof. Vojislav Radojević*), and his *Ph.D. thesis* in 1982 in the field of *theoretical vibrational spectroscopy of conducting polymers* (under supervision of *Prof. Ivan Božović*), at the *Physics Division* of the *Faculty of Science in Belgrade*. During 1980/81 he completed *postgraduate specialization* in the group of Academician L.A. Gribov in Moscow, renown authority in *theoretical spectroscopy & quantum chemistry of molecules, polymers & crystals*.

Professor Raković has a *wide scientific interest*, broadly related to *materials science & biophysics*, covering the fields of *nanomaterials & biomaterials, nanotechnology & spectroscopy, bioinformatics of biomolecular, epigenetic, psychosomatic, cognitive & electrophysiological functions*. During his career he has been *supervisor* in 15 Ph.D. theses and has *published* nearly 300 papers & communications and over 40 books & proceedings, *cited* nearly 2000 times in scientific periodicals & monographs in Google Scholar. He has been also *referee* in over 20 scientific journals.

He got his first position at the *Faculty of Electrical Engineering* in Belgrade in 1977 and became full professor in 1997, where he has taught *numerous courses* until his *retirement* in 2016 (in *Materials Science, Biophysics, Biomaterials, Quantum Information*, and doctoral group of courses in *Nanomedicine*). He was *heading* *Department of Materials Science* in several election periods, undergraduate *Module of Physical Electronics* from 2012 to 2015, postgraduate *Materials Science Curriculum* from 1987 to 2005, and undergraduate *Biomedical & Ecological Engineering Curriculum* from 1996 to 2016.

Since 1995 professor Rakovic is being **co-founder & vice-president elect** of **Yugoslav Materials Research Society** (which has organized numerous annual international YUCOMAT conferences and published 10 Proceedings, and handbook *Biomaterials* (2010, in Serbian)). During the period 1995-1998 he **headed Brain & Consciousness**, regional project of **European Center for Peace and Development (ECPD)** of the United Nations University for Peace in Belgrade (and co-edited several books: *Consciousness: Scientific Challenge of the 21st Century* (1995); *Proc. ECPD Symposium & Workshop Brain & Consciousness* (1997); *Proc. Consciousness - Religion – Society* (1997, in Serbian)), while from 2009 he **headed ECPD International School of Quantum-Informational Medicine** (with (co-)authored textbook *Introduction to Quantum-Informational Medicine, With Basics of Quantum-Holographic Psychosomatics, Acupuncturology and Reflexotherapy* (2009, in Serbian)). In 1999 he **co-founded International Anti-Stress Center (IASC)** in Belgrade, becoming **president elect** of the IASC Governing Board, with wide educational holistic anti-stress activities (with (co-)authored *Anti-Stress Holistic Handbook, with Fundamentals of Acupuncture, Microwave Resonance Therapy, Relaxation Massage, Airoionotherapy, Autogenic Training, & Consciousness* (1999, in Serbian); *Proc. Science-Religion-Society* (2002, in Serbian); *Proc. Religion & Epistemology* (2005, in Serbian); textbook *Fundamentals of Biophysics* (3rd ed. 2008, in Serbian); scientific-popular book *Recollections, Dreams, Thoughts: About Past and Future 1984-2007. On Crossway of Quantum-Holographic & Classically-Reduced Reality* (2008, in Serbian); and monograph *Integrative Biophysics, Quantum Medicine & Quantum-Holographic Informatics: Psychosomatic-Cognitive Implications* (2009)). In 2009 he also **founded his Fund (DRF) for Holistic Research & Ecology of Consciousness**, with wider promotive holistic activities (including *Proc. Symp. & Round Table Quantum-Informational Medicine: Acupuncture-Based & Consciousness-Based Holistic Approaches & Techniques* (2011); *Proc. 1st Int. Congress on Psychological Trauma: Prenatal, Perinatal & Postnatal Aspects* (2015); and book *Prenatal Psychology 100 Years: A Journey in Decoding How Our Prenatal Experience Shapes Who We Become!* (2018), becoming **Whole-Self co-director** for Serbia).

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