

LIFE AND ART – SEEN IN MANY COLORS

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The beautiful multicolored image gracing the cover of our journal is a tile made with dichoric glass, photographed by Jodi Jacobson.

Dichoric glass, from the Greek *dikhroos* – having two colors, (sometimes also called dichromatic glass), displays brilliant color properties caused by light interacting with multiple micro-layers of metals.

Techniques for using dichoric glass date back to at least the 4th century AD, as seen in the Lycurgus cup, now housed in the British Museum – a rare surviving example probably made in Rome. The glass cup is etched and ground to show figures standing out in high relief, depicting a mythic story of an 8th century B.C. Thracian King, Lycurgus. The cup is an opaque green in reflected light, but light shining through shows a translucent red, because of colloidal traces of gold and silver in the glass.

Modern techniques for making dichoric glass use electron beam vaporization in a vacuum chamber, to lay down ultra-thin layers of metals and oxides of metals, condensed in crystalline layers on the surface of the glass, and often protected by an additional layer of quartz crystal. The finished coating on a glass might have dozens of layers of condensed material, yet still be only the thickness of the wave lengths of visible light. By carefully controlling the depth and layering, multiple brilliant colors can be obtained. As various wave lengths of light are passed through or reflected, the transmitted and reflected colors are different, and both colors will also change with shifting angles of view.

The subtle interactions of physical structure and energetic processes that can render these brilliant multihued colors from glass, remind me of the multiple and subtle processes investigated and described by our authors in this issue.

The subtle layering of metals interacting with light waves in the glass is similar to the resonant electromagnetic signals from metallic homeopathic remedies, interacting with biochemical processes, as explained by Karin Lenger. The differences between the reflected colors and the transmitted colors from the dichoric glass are similar to the relations between coherent biophotons reflected within the body, and their concomitant torsion waves transmitted out into space; identified by Claude Swanson with the classic concepts of the Aura in the spaces surrounding living beings. Geoffrey Leigh and his colleagues have observed the dynamics in energetic relations between family members, similar to the artistic composition of the complementary or contrasting color relations in the entire frame of the beautiful glass tile depicted on our cover. Konstantin Korotkov and his colleagues have used a new and creative extension of Electrophotonic Imaging to observe the dynamics of collective energies, in spaces where people are engaged in various spiritual and artistic practices – a technology as subtle as the electron beam vaporization of metals to create the beauty of dichoric glass.

Karin Lenger recently has published her observations of the electromagnetic signals from homeopathic remedies in this journal and elsewhere.¹ In her clinical report for this issue, Karin describes therapies for chronic diseases, using the expected interactions from these remedy signals with enzymes and substrates for biochemical syntheses.

Claude Swanson has provided us with excerpts from his forthcoming book, to detail the role of Biophotons in metabolic regulation and the ways Torsion can be understood as the substrate of distant healing, consciousness, and the classical energetic Aura of living beings. Emerging from the work of Fritz Popp and his colleagues, the concepts of Biophotons may be more familiar to our readers than Torsion. The coherent Biophoton field forms a hologram throughout the body, communicating and regulating metabolism, growth, and healing.

With the creation of each Biophoton there is also a Torsion wave, a twisting effect in space. Torsion is understood as a newly recognized force in nature, extensively studied in Russia during the second half of the twentieth century. Equations can predict Torsion behavior, and inventions and practical devices have been developed using it. Although the Biophotons carry electromagnetic energy and are contained mostly within the body, Torsion waves easily penetrate tissue and form the primary holographic pattern outside the body. The torsion field has been shown to couple to consciousness. Claude proposes that torsion may be the missing ingredient for developing a true science of consciousness and understanding the fundamental nature of life.

Geoffrey K. Leigh and his colleagues have reported, in this journal and elsewhere, on their studies of both clairvoyant and instrumental evaluation of the differences in personal energy fields among infants, children and adults.^{2,3,4} The article in this issue reports on a study combining observations of emotional expression, family processes, and human energy field perspectives. Leigh and his colleagues investigate the relationships between emotional expression and human energy field interactions assessed in comparison to reported closeness between parents and adolescents.

Researches with Konstantin Korotkov's Electrophonic Imaging technology, also known as Gas Discharge Visualization, have also been extensively reported in this journal and elsewhere.^{5,6,7} The preliminary studies described in this issue use an interesting extension to the EPI/GDV, to assess the energetics of spaces during spiritual practice and artistic performance. By attaching an antenna to the titanium cylinder normally used to calibrate the instrument, the EPI can detect subtle shifts in the energetic potentials of space while rituals, healing, and aesthetic accomplishments are being performed. Some interesting correlations are reported between these EPI measurements and William Tiller's observations of conditioned space effects.⁸

These preliminary results demonstrate a potential for mapping the energetic effects of human emotions in space. Korotkov and his colleagues propose an international collaborative project for a Geoactive Zones Database – developing maps of energy parameters in sacred processes and the influence on peoples' psycho-physiological health.

Once again the papers collected in this issue of our journal span the breadths and depths of potential understanding from subtle energetic investigations. I hope you enjoy these studies as much as I have.

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3. Leigh, G. K., & Korotkov, K. (2001, June). The GDV Measure of Energy Fields and Corresponding Data on Group Differences. Paper presented at the Annual Meetings of the International Society for the Study of Subtle Energy and Energy Medicine in Boulder, Co.
4. Leigh, G. K., Polonko, K. A., & Leigh, C. D. (2003). A comparison of human energy fields among children, youth, adults, and Dahn Masters. *Subtle Energies and Energy Medicine*, 14 (1), 77-101.
5. Korotkov, Konstantin (Ed.), *Measuring Energy Fields: State of the Art*, GDV Bioelectrography series. Vol. I. Backbone Publishing Co. Fair Lawn, USA, 2004.
6. Gibson, S., Williams, B. The effect of music and focused meditation on the human energy field as measured by the gas discharge visualization (GDV) technique and profile of mood states, *Subtle Energies and Energy Medicine*, 16,2 (2005), pp 57-60.
7. Korotkov, Konstantin G., Peter Matravers, Dmitry V. Orlov, and Bernard O. Williams, Application of Electrophoton Capture (EPC) Analysis Based on Gas Discharge Visualization (GDV) Technique in Medicine: A Systematic Review, *Journal of Alternative and Complementary Medicine*, 15,12 (2009), pp. 1–13

8. Tiller, W. A., and Dibble, W. E., An Experimental Investigation of Some Reconnective Healing Workshops via a Unique Subtle Energy Detector, *Consciousness and Physical Reality Journal*, 2009, N 8, 27-32.