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APPLICATION OF THE SOFT ROENTGENOGRAPHY METHOD AND GAS-DISCHARGE VISUALIZATION FOR THE ASSESSMENT OF QUALITY OF SEEDS OF THE COMMON SPRUCE

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One of the most perspective methods of revealing latent defects in seed material is the method of soft roentgenography, which makes it possible to visualize all the internal form-building structures and, therefore, their density, volume and linear anomalies without destroying the seed.

In addition to existing introsopic methods of nondestructive control of bioobjects, the study of the characteristics of the gas-discharge glow of plant seeds is one of the most interesting directions of using the gas-discharge visualization method.

For research 2 seed samples (No. 3, No. 35) of the common spruce *Picea abies* L were selected. Each sample contained 96 seeds. The analysis of the condition of seeds was carried out in the following sequence: 1 - Definition of the condition of dry seeds by gas-discharge visualization method; 2 - Definition of the condition of dry seeds by the soft roentgenography method; 3 - Determination of viability of seeds in accordance with GOST (National Standard) 13056.6-97 (Seeds of trees and bushes. Viability determination method). For carrying out the analysis the seeds were divided into groups. Empty seeds ("group 0") and the seeds which have sprouted within 5-9 days ("group 1") were chosen from all samplings.

In both samples (No. 3 and No. 35) there was no gas-discharge glow in empty seeds unlike the seeds which subsequently sprouted. In sample 3 the glow Area (pixels) was for group 0 median 0, for group 1 median 882. Comparison of groups 0 and 1 by "the glow area" parameter on the basis of Mann Whitney's criterion showed that distinctions between the specified groups are reliable ($U=0.00$; $p<0.05$). In sample 35 the glow Area (pixels) was for group 0 median 0, for group 1 median 842. Comparison of groups 0 and 1 by "the glow area" parameter on the basis

of Mann Whitney's criterion showed that distinctions between the specified groups are reliable ($U=24.00$; $p<0.05$).

The seeds investigated by the soft roentgenography method showed the following distinctions: in both samples (No. 3 and No. 35) roentgenograms of empty seeds were characterized by smaller brightness, unlike the seeds which subsequently sprouted; that also is confirmed by data of the statistical analysis: in sample 3 brightness of roentgenograms (points) was for group 0 median 1, for group 1 median 2; comparison of groups 0 and 1 by the "brightness point" parameter on the basis of Mann Whitney's criterion showed that distinctions between the specified groups are reliable ($U=0.00$; $p<0.05$).

In sample 35 the brightness of roentgenograms (points) was for group 0 median 1, for group 1 median 2. Comparison of groups 0 and 1 on the "brightness point" parameter on the basis of Mann Whitney's criterion showed that distinctions between the specified groups are reliable ($U=40.50$; $p<0.05$).

The obtained results show that the methods of soft roentgenography and gas-discharge visualization can serve as the reliable instrument of nondestructive control of the condition of seeds of forest tree species.

ASSESSMENT OF ADAPTIVE RESERVES OF THE ORGANISM AND CHRONO-CORRECTION EFFICIENCY OF PRECLINICAL VIOLATIONS OF HEALTH OF ATHLETES BY THE GDV-BIOELECTROGRAPHY METHOD

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The GDV-Bioelectrography method is used for assessment of the functional and psychophysiological state of athletes (light athletics) with different levels of adaptation and efficiency of the complex chrono-correction, carried out for the athletes with low adaptation opportunities of organism. It has been established that in the group of athletes with high adaptive reserves the integrated glow area coefficient

exceeded the one in the group of athletes with low adaptive reserves, and the activation coefficient was 3.03 against 4.92 in the second group. After the chrono-correction the athletes of the second group showed a decrease of the activation coefficient to 2.6 ($p=0.0012$) and positive dynamics of GDV-image parameters: the glow area increased in all projections, symmetry, and integrated coefficients of the area; that demonstrate the increase of physical and psychophysiological opportunities of the organism, and normalization of the energy homeostasis of the examinees.

Thus the GDV-Bioelectrography method as part of a complex chrono-medical inspection showed its validity in screening assessment of the functional state of the organism of athletes and efficiency of the chrono-correction. Its application can optimize the process of ranging of athletes by the adaptive level and, as a result, by the success of competitive activity.

ELECTROPHOTONICS AS A BASIS OF COOPERATION BETWEEN AN OUT-PATIENT CLINIC AND EDUCATIONAL INSTITUTION

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When introducing the new generation standards into the educational system great attention is paid to the problems of health protection and strengthening of students, as well as to formation of culture of healthy and safe living.

Results obtained during a multi-year monitoring of students showed the dependence of the GDV image parameters on physical and psychological condition and social status of students. The 3 types of response were detected according to the manner of changes of the GDV images: 1) «adaptation stability»; 2) «insufficiency of adaptation»; 3) «tension of adaptation». The group of insufficiency of adaptation is formed by students with chronic diseases, from families of asocial way of living and

having low records in studies. Results of health monitoring of students obtained at school by electrophotonics method can be used by medical practitioners of outpatient clinics for analysis of health condition of children and teenagers to reveal illnesses, their acute forms or diathesis to them. They also make it possible for psychologists to evaluate the psycho-physical state of students and finally to create a well-grounded person-centered health route. Participation of students in monitoring teaches them to have an active approach in forming the values of health and healthy way of living.

As a result, we have a comprehensive approach in arranging an improvement of wellness of each child within close cooperation of family, school and outpatient clinic.

HOW TO STAY YOUNG, HEALTHY, AND BEAUTIFUL WITH QUANTUM PHYSICS, ELECTRODERMAL SCREENING, AND STEM CELL THERAPY.

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While we cannot stop getting older we can slow the aging process. The secret to staying young, healthy, and beautiful is to see and reverse degenerative disease before it manifests. These degenerative diseases include Alzheimer's, Parkinson's, multiple sclerosis, cancers, diabetes, heart disease, rheumatoid arthritis, among others. Electrodermal screening can detect these and other degenerative diseases before they become a problem. Electrodermal screening combined with stem cell therapy can help rejuvenate cells, tissues and organs and delay (and possibly reverse) the aging process. Viewing the human body as a "being of energy" rather than a "bag of chemicals" provides us with novel ways of approaching illness and promoting health. Using techniques that rely on quantum physics along with DNA blood tests and the latest advances in stem cell therapy increase our capacity to help the body heal. In this presentation the importance of dentistry, specialized cancer therapy, and the role of electrodermal screening will be discussed.

IMPROVEMENT OF PSYCHOLOGICAL TRAINING OF ATHLETES TAKING INTO ACCOUNT THEIR INTEGRAL INDIVIDUALITY

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Psychological readiness of athletes is the main factor of achievements in modern sports. Modern technologies of psychological training in sports of the highest achievements have been given the name "mental training" in the world's practice.

In order to study the influence and cumulative effect of mental training in combination of educational-training process, a series of comprehensive studies with specialists-experts taking part was carried out in the sports school for children "Sparta" and sport club "Champion". In the study different techniques of energy-information restoration were used, in a certain sequence, such as cosmoenergetic influence techniques, relaxation and jain meditation (Preksha) techniques and others. Gas Discharge Visualization Technique was used for assessment of the energy parameters.

Athletes of different age and qualification groups (9-11, 12-14, 15-17, 18-21 years) specializing in pair and group exercises were examined (n= 24).

Conclusions

Mental training of athletes of high qualification can be highly efficient only on the basis of a systemic or comprehensive approach taking into account assessment of the integral individuality of the athlete at the current stage of training. Assessment should include both the initial, (the main), and the highest levels of the athlete's individuality.

Intensive sport training can produce the maximum effect only when pedagogical and correctional methods, as well as the impact of physical loading, are based on a comprehensive individual examination of the athlete and are adequate to the obtained integral assessment.

Approbated methods of bioenergetic effect and mental training make it possible to normalize the functions of the energy centers of the athlete, to harmonize his energy field, to eliminate energy-information disorders and, as a result, to normalize the work of organs, systems and the whole organism. This produces higher results in psychological and functional training of athletes.

The GDV-bioelectrography technique makes it possible to realize differential and integral assessment of the functional state of athletes, of their bio-energy status on the whole, and opens up the perspectives of looking for universal parameters of bio-energy of man as a mechanism of inter-level interaction and transition in the structure of the integral individuality.

REMOTE OPERATOR AFFECTS TO THE PROCESS IN PHYSICAL WORLD AS A PART OF THE MODERN PHYSICAL PARADIGM.

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Remote operator affects to the real physical objects and processes from the point of view of modern physics paradigm in assumption that some materialistic agent transmits impacts from the subject to the object. It was shown, that the point of the agent in modern physical world are uniquely determined, and its properties can be described in a common physical terms. It was discussed, in particular, the properties of this agent as an affect to the evolution of electrical discharge in gases and the possibility of experimental detection of the gas-discharge processes.

FACTORS INFLUENCING THE POLARIZATION OF INERT GASES AND PROPERTIES OF SUBSTANCES IN WATER

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Heavy inert gases need to be considered as deformable systems consisting of positively loaded nucleus and negatively loaded electronic cloud. Electrostatic impact on a particle causes in it a shift of an electronic cloud in respect of the nucleus: polarization. The size of this shift is proportional to polarizability of the particle. Polarization of inert gases combines their polarizability and polarizing action. Both the polarizability and polarizing effect of inert gases depend on the electronic structure, charge and the size of the atom. It is assumed that polarizability of gas is caused mainly by deformation of the external electronic shell. It amplifies with growth of the number of external electrons. Xenon has the maximum polarizability. Polarizability of gases grows with an increase of the serial number. It is connected with the moving of external electrons away from the nucleus and an increase of shielding of the nucleus by internal electrons.

IDP – the induced dipole moment

Polarizability of inert gas increases when the effective charge of the nucleus increases, and, consequently, with an increase of Van der Waals radius. The polarizing action of the induced dipole of inert gas is more considerable when the charge and Van der Waals radius increase. Then the electronic shell of a cluster is steadier. The gases with bigger induced dipole moment (Ar, Kr, Xe) have the greatest polarizing effect. Having considerable polarizability they have weak polarizing action which, however, suffices for the receptor interaction. If the electronic shell of a gas molecule with the constant dipole moment is easily deformed, the dipole increases even more, and has an enhanced polarizing effect on a water cluster. Polarization is also influenced by a higher or lower ability of electronic clouds to deform. Ions, like noble gases, are steady and polarize with more difficulty, but anions among them are much easier deformed as their volumes are bigger and their clouds are far from the

nucleus; the negative charge of an ion is located in the cloud, not in the center, as it is with a cation. Deformation of the electronic shell as a result of polarization leads to reduction of the inter-nuclear distance, making ionic communication denser. The higher the polarizability of the electronic shell of an inert gas, the higher probability of emergence of instant eximer molecules (Ar_2^+ , Kr_2^+ , Xe_2^+) in the associate cavity.

Ideas of polarization of inert and indifferent gases help to explain distinctions in properties and action of many substances. Mutual polarization of inert gases with the induced dipole moments and water shell of the associate leads to temperature fluctuations of melting of substances that can affect the temperature mode of the patient. The temperature of decomposition of substances also goes down with an enhancement of mutual polarization of inert gases. Deformability of electronic shells also affects optical properties of substances. The more polarized particle, the lower energy of electronic transitions. If polarization is small the excitation of electrons demands higher energy that refers to the ultra-violet part of the spectrum. It is characteristic of helium, neon and hydrogen. In case of polarization of heavy inert gases, the electrons are excited during absorption and emission of radiation in the IR-spectral range. Well-soluble in the water gases with constant dipole moment and containing polar groups and hydrophobic radicals (for example alcohols), have a polar part that can replace a molecule of water of the carcass and a hydrophobic one that can fill the empty spaces ("hydrophilic" introduction). If interaction of molecules of a non-electrolyte with water molecules is weak, filling the cavities with hydrophobic part can be considerable. Thus, diphyllic molecules can influence the structure and properties of water in different ways.

The maximum stabilization of structure occurs when all the cavities are filled with molecules of inert and indifferent gases. Measurement of contact potentials showed that even in atoms of inert gases and nonpolar molecules during adsorption on conductors, metals and carbon big induced dipole moments occur at the expense of polarization of the adsorbed molecules by the field of the double electric layer formed by free electrons of the conductor surface and the corresponding internal positive charge (Greg S., Synge K. 1970). In our case, besides dispersive, Van der Waals forces nonspecific induction electrostatic forces (the total field of the associate) are manifested whose size is also determined by polarizability.

MECHANISMS OF PHYSIOLOGICAL AND BIOLOGICAL ACTION OF INERT AND NONPOLAR GASES

Dovgusha V.V.

winner of the award of the Government of the Russian Federation in the field of science and technology

A number of researchers trying to explain the mechanism of the effect of inert gases by chemical or physical-chemical interactions came to progressive and perspective conclusions. Here some of them:

- the final mechanism of action of substances has to be identical;
- this mechanism is not accompanied by chemical interaction;
- there is a dependence on solubility coefficients in water and fats;
- there are distinctions in the impact of mechanisms on nervous and somatic cells;
- dependence of molecules and other physical characteristics on the polarity;
- the ability of inert gases to interact with water, forming essentially new structures with properties characteristic only of them.

The presented work offers a number of new methodical approaches for studying the mechanism of effect of inert gases on biological systems:

1. The attention is paid to the necessity of considering the condition of the inert gas before its coming into the organism (the quantity of metastable atoms, etc. increases).
2. Physical-chemical and biological properties of the light (H_2 , Not, Ne) and heavy (Ar, Kr, Xe) inert gases and nitrogen are considered.
3. The results of interaction of inert gases with biological objects, including man, are necessary to be estimated from the point of view of both the direct effect of inert gases, and their after-effect (for example, direct effect of xenon is used for removal of tension, stress, etc., and the effects of an after-effect for acceleration of the restoration and activation processes).
4. The mechanism of the effect of inert gases on biological objects needs to be considered from the position of formation of a uniform operating complex: indifferent gas and water clusters of biological liquids.

5. Polarization and emergence of the dipole moment is the main issue in all physical-chemical and biophysical interactions of inert gases with biosystems.

Electric, optical, magnetic and other properties of atoms and molecules are finally connected with wave functions and energies of various conditions of elements: through them both the electric dipole moment, the magnetic moment, polarizability, and the magnetic susceptibility are expressed. This is the essence of nuclear and molecular ranges (Wolkenstein M. V., 1981).

For heavy inert gases (Kr, Xe), as well as for N₂, SO₂ and others whose polarizabilities are rather high, it is necessary to consider the presence of the induced dipole moment in them. For light atoms (H₂, He, Ne) with rather small polarizability the activation forces are small and the induced dipole moments are absent. There can take place gas transition (Xe or CO₂) from one phase state into another, from the main state into metastable, polarizing, with formation of the induced dipole. It is primarily contributed to by a low potential of the excitement of external electrons (8.2eV), a high dipole of molecules of H₂O and its associates, ample opportunities of cooperative effects of these processes, polarization of external electrons of inert gas by the electric field inside the water cavity, etc. Thus a quantum leap on energy (dipole) level occurs with a drastic change of gas properties.

After xenon (gas) has left the cavities formed by water molecules of biological liquids, they (the associates) change their main lines in spectrum. In this case the water changes the properties and physical and chemical characteristics in a non-reagent manner. When the supply of the gas mix to the organism interrupts the mass transfer process is broken, the hydrate formation is broken, the dipole moment disappears, and the anesthesia symptoms are over. Dynamically metastable water associates represent nonequilibrium structures characterized by sufficient energy (slightly more than thermal noise = 0.026 eV) after elimination of xenon.

Post-xenon (post-gas) effects are absolutely opposite to xenon (direct), these are multidirectional interactions with different characteristics.

EXPRESS-EVALUATION OF THE PSYCHO-PHYSIOLOGICAL CONDITION OF THE PARALYMPIC ATHLETES

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Objective: Evaluation of top level athletes' psycho-physiological condition at all stages of preparation and international competition.

Design: Athletes have been tested during training and participation in the international competitions using methods of Galvanic Skin Response and Gas Discharge Visualization.

Setting: Saint Petersburg Federal Research Institute of Physical Culture and Sport, Russia.

Participants: 18 athletes of Russian skiing and biathlon Paralympic team with damage of musculoskeletal system.

Main Outcome Measures: The level of Energy Potential, Stress and Psycho-Emotional Tension.

Results: It was found that the higher the level of Energy Potential achieved by the athlete in the training period, the lower the Stress Level in the competition time. The level of Stress of an athlete recorded in the training period significantly correlates with the level of Stress both before and at the time of important competitions.

Conclusions: Evaluation of Energy Potential and Stress parameters allows to follow up conditions of athletes in all the preparation and competition periods with high precision which help to optimize the process of training. Developed approach makes the process of measurements fast and noninvasive.

STUDIES OF INFORMATIONAL MEDICINE

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The material based on the development of works of a Nobel Prize winner I.R. Prigogine is considered. The main issue of the development of these works is the use of a mathematical apparatus of thermodynamics of irreversible processes (thermodynamics for an open system). I. R. Prigogine developed the apparatus for the case of the exchange of mass and energy of a system with the environment. For our purposes it has been developed for the case of the exchange of mass, energy and information of a system with the environment.

An important practical aspect of the proposed work is the use of the sensor based on the principle of similarity of the cell membrane of live systems copying their most important property: availability of a double electrical layer (DEL). According to Professor A.V. Bobrov, the sensor element that makes it possible to react to mass, energy and information changes can be represented by a cell membrane of an organism containing DEL between the outside and inside surfaces of the cell membrane. The signal is perceived with the cell's DEL which interacts with the information carrier, the intracellular water.

Each tissue cell is a complex colloidal system with numerous DELs. They have unique sensor properties and play an important role in the vital activity of biological systems. In DEL the change of the electric potential occurs under the influence of electrical, magnetic and other radiations. The change of potentials in the membrane cell layer promotes mass, energy and information transfer.

The above-mentioned principle of DEL effect is realized in the technical design of "Eniotron" device. The device enables to quantitatively evaluate the criteria of Order K_o and Chaos K_c in human body.

In 2004 the research done by the scientific workers of St. Petersburg State University ITMO offered to evaluate the quality of information

using chaos and order criteria expressed by the total value of the energy and information flows.

The dynamics of changes of the curves of the order criterion K_o and chaos criterion K_c shows the tendency of the information quality, i.e. it is possible to make a conclusion about aiming of this value at order or chaos at each moment of time. If we consider that the objective of the system is reaching the state of harmony (e.g., health) then when a system is in the state of harmony the criteria of chaos and order should be about the same $K_c = 0.4$ и $K_o = 0.6$, which follows from empirical generalizations of synergetics.

The processes of mass-information-energy exchange are most fully studied in leach therapy.

THE POWER OF THE SUBCONSCIOUSNESS. THE SOURCE OF ILLNESSES AND HEALTH

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The subconsciousness and its influence on our health and life is a poorly-studied issue. People use a lot of techniques and methods to make attempts "to agree" with their the internal nature, but, as a rule, it doesn't bring long-lasting results and effects. Human subconsciousness can't be changed at a conscious, cogitative level, such as learning ability.

The subconsciousness is capable much more effectively, in comparison with the consciousness, to influence our actions and the condition of our health. Emotions and feelings by means of which it communicates with us are urged to tell us which way is optimal for us and our survival. Pain and diseases is nothing but another way of communication of our organism with us.

The actual condition of our consciousness and subconsciousness can be

measured at the level of wave frequencies emitted by our brain. For a long-term work with the subconsciousness, aimed at solution of prolonged problems in the field of physical and mental health, it is necessary to correctly activate all other energy centers of our body, not only brain. In particular, the centers connected with metabolism, endocrine and lymphatic systems capable to make considerable impact on our attitude.

Our subconsciousness is the most effective remedy of health protection and normalization, however, when used in a wrong way it is capable to kill its master (nervous anorexia). Therefore it is extremely desirable for man to learn how to use all regeneration potential of his own organism for ensuring its healing.

COMPARATIVE ASSESSMENT OF THE IMPACT OF DRINKING WATER QUALITY ON THE ATHLETES' CONDITION DURING EXERCISE

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Integrated studies utilizing methods from physiology, psychophysiology, psychology, and biophysics were conducted. Athletes had the parameters of their condition measured before they began consuming graphene-filtered water as well as after a 30-day period of its consumption during training cycle. The obtained results were compared with the data from a control group of athletes who drank bottled water. It is shown that athletes drinking water passed through a graphene filter experienced growth in aerobic capacity, physical performance, energy potential, and their bodies' adaptive reserves.

YOGA AND ELECTRONIC MEASUREMENTS OF HUMAN PHYSIOLOGY
“OPTIMAL REGULATION IS OPTIMAL HEALTH”

Alex Hankey PhD

Russian devices for measuring unusual properties of human physiology, etiology and health are highly advanced. Inventors like Igor Grakov and Konstantin Korotkov have produced devices of uncanny depth and penetration into balance and imbalances in human physiology. Virtual Scanning, GDV and others like the Imodin electrodermal device, provide unique research opportunities into the ‘subtle physiology’. In this light, Yoga practices offer suitable interventions to investigate how such machines interact with the subtle physiology. Selected Yoga techniques, practiced over various periods of time provide ways to investigate both changes and benefits induced by practice, and ways to monitor growing states of health. Here we present observations made over the last five years at SVYASA Yoga University in Bangalore, India, the nation’s top Yoga research institution. When working with an electrodermal testing device, we observed the advantages of subjecting data from many subjects to 2-factor ANOVAs. Sources of variation can be assessed eg inter-operator, and machine reliability shown to be dependent on subject emotionality. Groups of advanced Yoga practitioners show higher levels of subtle energy, with greater reliability and smaller standard deviations than novices. This suggests that their subtle energies (‘Qi’ or ‘Prana’) are better regulated, which when combined with the understanding that, ‘the subtle regulates the gross’, suggests that, in contrast to the obvious ‘poor regulation leads to poor health’, improving regulation improves health. Ultimately, therefore, optimal regulation corresponds to optimal health. Similar analytical methods can be applied to readings from the Gas Discharge Visualization (GDV) device. Though used to analyze individuals, group data are of fundamental interest. Analyzing groups of patients with chronic conditions like Type 2 Diabetes may characterize the pathology. Yoga practices can again be shown to improve and balance subtle energies in different ways. GDV’s unique advantage is its ability to assess the very high quality of subtle energy associated with spiritual energy centres known as ‘Chakras’ in the Yogic sciences. Again, higher levels of subtle energy balance and improve function, as may be fully understood in terms of top-down systems of regulation of complexity biology.

«GDV NEUROTONUS» AND «GDV VALEODYNAMICS» THE
INSTRUMENTS FOR HUMAN ADAPTIVE ABILITIES CONTROL

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The computer programs GDV Neurotonus and GDV Valeodynamics, developed and issued in 2012, realized an approximation model of the calculated parameters of gas discharge glow around human fingers; it has been experimentally established that this software can be used for obtaining data on the subject's vegetative tonus with accuracy, reliability and reproducibility comparable with the more commonly used electrophysiological techniques (e.g., rated pulse tonometry (calculation of A.M. Wein sympathetic index and cardiorythmography according to R.M. Baevsky).

On the one hand, gas discharge bioelectrography (bioelectrometry) requires minimally twice as less time for testing comparing with the similarly informative methods mentioned above; on the other hand, the possibilities of the resolving power of the GDV Neurotonus and GDV Valeodynamics (with the use of approximation) are very promising, as our experiments show.

It can be asserted with high probability that in the nearest time gas discharge bioelectrometry can become a reference technique for monitoring the dynamics of psychophysiological state of practically healthy people (and people with prenosological disorders of psychophysiological state).

COMPUTER PROGRAM "BREATH RHYTHM GENERATOR" - AN
INSTRUMENT FOR HUMAN ADAPTIVE ABILITIES CONTROL

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Health control of practically healthy people (and persons in the “third” condition) is an urgent task of state level today and even more tomorrow.

The solution of the problem of the individual health control consists of a number of issues. The most important of them are as follows: 1) evaluation of the current situation (testing), 2) optimized individual correction (health improvement), 3) evaluation of adaptive reactions caused by a side or self impact.

In 2013 with an aim of individual psychophysiological training (health improvement) the company Biotechprogress created a number of programs realizing the biofeedback (BF) mechanism. One of those is the “Breath Rhythm Generator” (another one is “GDV BOS (BF)”.

The GDV Neurotonus program provides an express evaluation of psychophysiological state at the moment of testing, the GDV Valeodynamics provides monitoring of the vegetative tone dynamics within a treatment course; the Breath Rhythm Generator provides a possibility of a dosed individual course training of the “weak links” of structural and functional elements of an individual.

Combination of testing with health improvement lessons and evaluation of the human response to these lessons brings the medical-prophylaxis (valeological) technologies to a higher practical level.

INFLUENCE OF NANOCOATINGS ON HUMAN BIOELECTROGRAPHIC PARAMETERS

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The work presents the results of studies of the influence of pictures with nanocoating of copper oxide on bioelectrographic parameters of 28 girls taking part in various situations of learning and cognitive activity. GDV readings were formed twice during the experiment: at the beginning, as the background state parameters, after a 30-minute exposure of the pictures of two color compositions with nanocoating: a red and a blue one, and also a grey canvas of the same size without content. The GDV readings were processes with Energy and Laboratory programs in two capture modes (with and without filter), a comparative analysis of the glow area, form coefficient, symmetry, entropy, fractality by isoline after exposure, in comparison with the background state parameters, was carried out. The psychoemotional and functional state of the examinees was also analyzed using the Lüscher color test: the vegetative coefficient (VC) and Valnefer deviation from the autogenic norm.

A significant growth of the low area and a decrease of the form coefficient in the series without filter at exposure of all three canvases in comparison with the background parameters have been established. The symmetry growth in the series without filter and the increase of the form coefficient in the series with filter under the influence of all canvases are non-accidental. The decrease of entropy was detected in both modes of captures under the exposure of the monochromatic canvas.

Multi-factor analysis carried out using all the parameters including VC and deviations from the autogenic norm was possible to be performed only with the picture in red, since the influence of the blue picture features more expressed group variabilities. Factor analysis produced a three-factor solution with the three main factors including 79% of general dispersion. The first and third main factors (MF) contain the main GDV parameters before and after exposure, which shows a close connection of bioelectrographic parameters before and after exposure.

The second MF includes VC, deviations from the autogenic norm and entropy in the series without filter after the influence of the red picture. This makes it possible to conclude that psychoemotional and functional states closely correlate with the glow entropy as an informational component of the glow.

On the whole, the obtained data make it possible to assert a positive influence of the pictures with nanocoating, including the monochromatic one, on the human functional state and adaptive resource after a 30-minute exposure. Improvement of the subjective parameters is demonstrated by the dynamics of the objective parameters of the GDV glow.

THE STATE OF WATER AND MEGALITHS OF PLANET EARTH ON THE VERGE OF ERAS

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Studies of the condition of natural water (the results were reported at the previous Congress) have been continued. Data on behavior of some megaliths and crystals are provided. The main attention was paid to characteristics of water and rocks in both astronomical, and special sacral points. In addition to the noted before changes of water condition (an increase in the biofield radius in L; transition to other regularities, i.e. to other frequencies; transition into a dual state), during the considered period the following changes were noted: a considerably higher value of the maximum L-values (during the days of the autumn equinox and an unprecedented flash on the Sun on 22.09.13; in the point of maximum of quantum transition to the new era on 21.12.12, etc.). In addition, the dual radiation of a unique megalith on islands of the White Sea investigated in 2006-2008, shaped like a huge white Egg, started to increase from 21.12.12, and on 1.05.13 for the first time it became negative (the left screw rotation, or the Yin). Radiation of some crystals (amethyst and especially opal) also increased.

Last winter an increase of the number of patients with flu (especially in China and the USA) that for the first time after 2008 included Russia was observed. Bioactivation of natural water in 2008-2009 was calculated up to 21.12.2012. In February, 2013 in St. Petersburg we carried out another bioactivation of the World Ocean; the results were confirmed by Sophia Blank's studies of Kirliangrams in New York. The period of validity of bioactivation is estimated for 4 years. The period from 2008 to 2017 covers the stages of quantum transition of the planet and all mankind into a new era (the 6th race). Finally it is reported about finding the analogs of some outstanding Hyperborean megaliths in the White Sea that we investigated in the south of the USA. The age of these post-Atlantis megaliths is much less than that of the northern ones. The purpose of these complexes is apparently the maintenance of harmonious alignment of the energies of northern and southern hemispheres (creation of the so-called neutrality). The same role is probably played by the dual radiation from Space, reradiated by water and rocks.

ELECTROPHOTONIC EXPERIMENTS DURING DR JOE DISPENZA
WORKSHOP FEBRUARY 20-23, 2013

Konstantin Korotkov, Doug De Vito, Joe Dispensa

During 5 days workshop a series of experiments were conducted with Electrophotonic "BioWell" Camera [1-3] (see description in the Appendix). BioWell camera allows to measure Human Energy Field and record time dynamics of the environmental energy with a special sensor "Sputnik". All measurements are done in automatic mode using Internet for data processing on server. Human measurements were done before the beginning of the workshop and by the end. A group of people were measured every day by night.

Sputnik sensor was positions at the back of the stage where Joe was presenting before the audience of about 150 people. Every session included collective meditation accompanied by music.

Results

Strong responses of Sputnik sensor was recorded during every session of the workshop. All changes were statistically significant. Analysis of these data allows us to conclude that in the process of Joe Dispenza workshop effect of space conditioning was recorded. Every person, being present in this conditioned space, feels the influence and transforms in this field, which adds an extra effect to the meditation session.

Measurements of the Human Energy Field before and after the workshop demonstrate overall increase of energy for majority of participants and balancing of Chakras.

EXPERIMENTS DURING WORKSHOP IN GREECE, SEPTEMBER, 2012

Konstantin korotkov, christos drossinakis

During Christos Drossinakis' workshop in Greece, September 2012 a group of participants were measured with GDV instrument in the first (02.09) and in the last (07.09) days of the workshop. The following changes in the Energy of the participants were detected:

For all participants the level of stress either decreased, or stayed in the optimal range. Statistical analysis with t-test demonstrated that these levels are statistically significantly different ($p < 0.001$).

The level of Energy in the beginning and by the end of seminar practically have not changed ($p = 0.66$).

For all participants position of Chakras became more balanced and centered (see some examples below).

Above presented data demonstrate that in the process of seminar for all participants significant harmonization of the Energy Field was noted. This confirms the positive effect of the seminar both to the wellbeing, and to functional and psychological level of the participants.

EXPERIMENTS DURING
WORKSHOP IN SPAIN, SEPTEMBER 2012

Konstantin Korotkov, Christian Bordes and Sylvie Bordes

In September 2012 measurements in Aragon, Spain with “Sputnik” sensor were conducted at two chapels “Juan and Pablo Ermita” and “Vergen de la Perna Ermita” without presence of people and during group meditation. Both chapels are well-known as places of a strong energy. They exist from the XIth century and serve as holy meditation places for Christians for a 1000 years. Both chapels were built at the top of the hills with amazing landscape around. For centuries people were coming there for pray and meditation. As we see from the presented data “Sputnik” sensor was very sensitive in detecting meditation process and the level of a signal depended on the energy of a place.

SCIENTIFIC EXPERIMENTS BY THE END OF THE WORLD

Konstantin Korotkov, Doug De Vito

As we know 21.12.12 at winter solstice Maya predicted the end of a Great Cycle. It is based on the following ideas (<http://www.ancient-world-mysteries.com/2012.html>):

- 1) The Maya, as with almost all ancient world cultures, believed that the earth, as part of its natural cycle of being, lives through a series of successive ‘world ages’, each separated by sudden physical planetary upheaval.
- 2) According to modern day researchers, the Long Count calendar system was established by the Maya in ancient times to forecast or mark out the very transition points between world ages.
- 3) The primary recurring cycle of the Long Count calendar has been

found to consist of precisely 1872000 solar days (approximately equal to 5125.36 years). And this period of time is held to be the very duration of each successive world age.

4) From the study of Long Count inscriptions found at various ancient Mayan settlements, evidence has been uncovered to suggest that the Maya believed the current world age began on 11 August 3114 BC - Gregorian calendar.

5) If the researchers are correct in their reconstruction of the Long Count start-date, which would represent the end of the last world age and the beginning of the present age, then the addition of 1872000 days to the time of 11 August 3114 BC, will place the end of the current age at precisely: 21 December 2012 AD.

At the same time believe that our Earth passes through the Galaxy plane is not true. Astronomers believe the Earth and solar system reside north of the plane of our Milky Way galaxy. It is not known with precision how far north we are of the galactic plane, but estimates place us at a few to several dozen light-years. As the solar system revolves around the center of the Milky Way galaxy in a period of roughly 230 million years, it does bob up and down through the galactic plane in periods of roughly 35 million years. But none of this had any bearing on what was to happen on December 21, 2012.

So - what has happened on 21.12.12?

- Nothing special. At least in Teotihuacan area everything was calm.

- Nothing special, except human emotions. We had expected that a lot of people would have strong emotions by that day. And it was detectable by our instruments. Strong variations of Sputnik signal at the moments of collective meditations both 21.12 and 23.12 were recorded.

DIAGNOSTIC OPPORTUNITIES OF DYNAMIC GDV-GRAPHY FOR DETECTING PATIENTS WITH COLON CANCER

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Among various pathologies of the stomach intestinal tract colon cancer occupies a significant place. During the last 30 years a continuous growth of the number of cases and mortality from colon cancer has been observed. Among malignant stomach intestinal tumors colon cancer occupies the 4-th place and constitutes 4-6% of all cancer cases.

The objective of this research was to find statistically significant reliable signs of dynamic GDV images for detecting patients with various colon tumors.

88 people from 17 to 86 years of age, 20 men and 68 women were examined. The examinees were divided into 3 groups: the reference group, patients with colon polyps, and patients with colon cancer.

The examination was carried out with the GDV Camera. The dynamic series data of the index fingers processed with the GDV Scientific Laboratory program were studied. The dynamic curves were studied as degree trends.

The parameters and the form of curves, according to which patients with various colon tumors differ from the reference group, were determined.

DIAGNOSTIC OPPORTUNITIES OF STATIC GDV-GRAPHY FOR DETECTING PATIENTS WITH COLON CANCER

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In modern world a continuous growth of the number of cancer cases has been observed. In Russia in 2011 the prevalence of the colon malignant tumors was 200 people per 100 thousand of population. For comparison, in 2001 there were 130 people per 100 thousand of population.

The objective of this research was to study the opportunity of using static GDV-graphy for detecting patients with colon cancer.

The GDV Camera was used to examine 107 people. The examinees were divided into 3 groups: the reference group of 52 people, 44 patients with non-malignant colon tumors, and 11 patients with malignant colon tumors.

Statistically significant differences between the reference group and groups of patients with non-malignant and malignant colon tumors were determined. Regularities in the distribution of differences in the dynamic comparison between the groups: “the reference group – patients with non-malignant tumors – patients with malignant tumors” were found. This opens up good perspectives for the GDV method to be used in dispensary examination of the population.

DIAGNOSTIC OPPORTUNITIES OF STATIC GDV-GRAPHY FOR DETECTING PATIENTS WITH STOMACH CANCER

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Stomach cancer (SC) is one of the most common types of cancer and the second reason of cancer mortality all over the world. In Russia SC occupies the third place in the structure of cancer diseases and the second in the mortality rate.

Early detection of cancer is the main factor in defining the life longevity of a patient, the success or failure of the treatment is also dependable on it. The absence of an efficient non-invasive screening program for examining people on mass level defined the objective of our research: to study the opportunities of using gas discharge visualization for detection of patients with chronic gastritis and stomach tumors in the course of screening examination.

The GDV technique was used to examine 88 people. The examinees were divided into groups: the reference group of 20 people, 21 patients with chronic gastritis, and 18 patients with malignant non-malignant stomach tumors.

Significant parameter differences between patients with chronic gastritis and stomach tumors and the reference group were found.

The obtained data show that GDV can be used in diagnostics of stomach diseases. To increase the amount of samples in order to improve the quality of the obtained results is planned.

TOPICAL DIFFERENTIAL DIAGNOSIS OF COLON AND STOMACH CANCER USING GAS DISCHARGE VISUALIZATION METHOD

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Patients with cancer can feature both biochemical disorders caused by the malignant and accompanying diseases, and changes in peripheral blood that are most common at advanced stages of cancer.

The objective of this work was to estimate the possibility of topical differential diagnosis of colon and stomach cancer by gas discharge visualization method and to study the relationship between the parameters obtained by gas discharge visualization method and those obtained by clinical-laboratory ones.

The GDV Camera was used to examine 78 people. The patients were divided into groups: with colon cancer and with stomach cancer. Statistically significant differences were found in the GDV parameters of the groups of patients with colon tumors and stomach tumors. The obtained results confirmed the possibility of detecting the localization of affection of various sections of the stomach intestinal tract using GDV.

Average correlations and strong correlations with significance levels $p < 0.05$ and $p < 0.01$ were obtained between the GDV parameters and biochemical and general blood test analysis results. Correlations were observed in all sectors of the right and left index fingers.

BACKGROUND RESONANCE RADIATIONS AND REGISTRATION OF THEIR INFLUENCE BY GDV-GRAPHY METHOD

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Modern researches make it possible to assert that weak resonance vibrations receive synergetic quantum-wave responses that confirm the presence of sublime bioenergetic connections used in the Eastern practice for more than 4 thousand years.

The efficiency of the mm-resonance therapy is confirmed on the basis of the shortwave frequency puncture devices that were permitted for realization and mass production in RF and EC.

Studies of various ranges of frequencies showed special sensitivity of organisms to low frequencies (01-25 Hz) and shortwave frequencies (30-300 GHz). The devices and basic technology of the influence of background resonance radiation (BRR®) on substances and biological objects has been developed. BRR emitters are made on the basis of semiconductor materials by copyright technologies and are capable to form a spectral analog of radiation of biological object or active material.

The BRR® emitter forms an analog of radiation of vibrations of the diseased organs and biological substrates, and generates their frequencies in autonomous mode due to the energy exchange with the environment.

Pathologic vibrations weaken, or are completely suppressed, a positive correction of homeostasis occurs.

Development of bio-resonance technologies has continuously required the establishment of the informational feedback (the organism response). The GDV-graphy technologies enable us to estimate the opportunities of BRR® in a new way. Dynamic GDV-graphy is a good possibility to evaluate the adequacy of “weak” background effects.

IMPACT OF THE PENTAGRAM HELIOGRAPH ON HUMAN ENERGY

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We took interest in heliographs in the Kostanay Region made in the form of a square, a cross, swastikas, spirals, a circle, stars, etc. (pictures by NASA). We have practiced gas-discharge visualization since 2002; we were interested in the pentagram, as many civilizations and peoples considered the sign of a star as a powerful talisman and it was used for this purpose in temple architecture, national clothes, jewelry, etc.

Thus in 2012 a group of 25 people of different sexes, ages, nationalities and religious confessions took part in the studies of the so-called Verkhnetobolsk pentagram for the purpose of establishing the influence of the heliograph in the form of a star on human energy. For the purpose of purity of the experiment the participants were not informed on where the group would go and what the purpose of the trip was; they were offered to have a rest with their families on Sunday but before that to check their energy levels with the devices of gas-discharge visualization invented by Professor K.G. Korotkov: before and during the trip and after rest.

The result of this research was that many subjects did not always show a noticeable change of the aura glow, however the fact was that the men's chakras during their stay on the pentagram shifted to the right, in comparison with the GDV images captured before the trip, and those of women to the left, and the chakras became much bigger and correctly located in respect to the spine. Such results were obtained for the first time though we had been in similar expeditions many times.

In our work we also use The Fifth Element invented by Prof. K.G. Korotkov which enabled us to establish the prevalence of the "energy of Earth" over the "energy of Air" and "energy of Water" though the artifact is washed from three sides by the water.

THE EFFECT OF LOW INTENSITY SHORTWAVE FREQUENCY RADIATION ON OPPORTUNISTIC MICROMYCETES

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The objective of this research was the study of the shortwave radiation (SWF) effect on opportunistic micro mycelia. The source of the shortwave radiation was the device of SWF-IR therapy CEM-TECH (manufacturer OOO "Spinor", Tomsk) with the pulse power flow density $5 \times 10^{-10} \text{ W/cm}^2 \times \text{s}$.

The biocide possibilities of the shortwave radiation in respect to micromycetes *Alternaria alternata*, *Aspergillus niger*, *Chaetomium globosum*, *Fusarium moniliforme* and *Penicillium chrysogenum* were studied. It was shown that the exposure to the shortwave radiation causes death of no less than 50% of CFU in all test mycelia. Therefore, low intensity noise radiation of the shortwave radiation frequency range is capable to cause death of big amounts of spores of micromycetes, however this type of radiation can rather efficiently realize its biocidal effect in associative cultures of micromycetes.

Further, dynamics of exocatalase and exoperoxydase activity under the SWF effect was studied. The objects of the study were *Alternaria alternata* и *Aspergillus niger*. Biochemical data analysis showed that with *Aspergillus niger* stimulation of the exocatalase activity is observed in response to the SWF effect; however the activity of exoperoxydase decreases. In the case with *Alternaria alternata*, it can be concluded that the exoperoxydase activity is stimulated under the SWF effect on the 10-th day of cultivation.

THE EVALUATION OF ESSENTIAL OIL'S ENERGY
BY GDV TECHNIQUE

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We study the quality evaluation of essential oil. Essential oil is pure natural materials. Therefore its quality isn't stable for the season and region for gathering raw materials, control method and extraction method. That is why we need to consider the method of this evaluation.

In this subject we not only analysis the ingredients of essential oil, but also pay attention into the energy. As the method we adopt GDV technique for the evaluations of this energy. GDV is based on gas discharge or plasma (the photon and electron emissions) from the surface of the measurement object whilst exposing to electromagnetic field. According to our research and other researches, we think that this plasma in GDV is related to the electric conductivity, surface tension and zeta potential of liquid.

In measuring essential oil, the plasma is generated in air-oil interface.

Essential oil has high volatility. This evaporation rate is the relation with the energy of the surface tension. Considering this character, we think that we can show a new standard by observing interfacial plasma of essential oil from the view of GDV. Also we can consider it from the point that evaporation of essential oil is brought forward in this process.

For understanding the functionality and character of essential oil and controlling the good quality, we study the possibility of GDV with other measurement instruments. We will report detailed information in the near future.

ENERGY MEASUREMENTS IN HAWAII:
SWIMMING WITH DOLPHINS & VISITING THE VOLCANO

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GDVsource LLC

The Hawaiian Islands of the Pacific are an energetic wonderland filled with strong healing energy on land and in the sea. Ancient healing grounds, volcanoes, lush tropical gardens with meditation coves provide a unique, highly active environment. Complementing this, the island offers life forms with such variety and vitality, which creates a synergy found in few locations around the world.

In an effort to capture the effects of this powerful setting, a pilot study measuring the results of swimming dolphins was conducted on the island of Hawaii in 2012. The Atlantic Bottlenose dolphins were contained in the spacious Dolphin Quest Lagoon at the Hilton Waikoloa Village Resort in Waikoloa. A second study was performed off of the Kona coast swimming in the ocean with schools of Spinner dolphins. Subject energy field measurements before & after swimming with the Hawaiian dolphins were evaluated and discussed.

Further, the GDV Eco-tester was used to measure the differences in energy levels at several Hawaiian locations for the sake of comparison. The sites included Buddha Point, a local Meditation site, two sites at the active volcano rim at Kilauea Caldera in Hawaii National Park, and during a mild tsunami that came through Waikoloa.

The main conclusion that was discovered is that swimming with both sets dolphins produced a more relaxed emotional and physical energy state for the participants. In contrast, the lagoon swimming relaxed the subjects immediately, and the ocean swimming ultimately provided a more profound shift in consciousness for the participants.

EVALUATION OF THE EFFICIENCY OF APITHERAPY
BY BIOELECTROGRAPHY

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During the last decades fundamental research was carried out in the field of experimental and clinical apitherapy.

Bee venom in low concentrations can result in various physiological effects and normalize the violated homeostasis. It has been established that bee venom causes stimulation of the hypophysis-adrenal system and formation of neurohumoral regulation mechanisms.

For evaluation of the systemic response of the organism to the bee venom effects the computerized bioelectrography Gas Discharge Visualization Technique (GDV) was used. This method is widely used in the world's practice for accurate detection of changes of a number of physical parameters of patients after medical treatment procedures. [1].

All patients after a 30-minute procedure show a glow intensity increase in the sectors of hypothalamus, hypophysis or adrenals.

The bioelectrical approach helps to realize the most important tasks of scientific and practical medicine, namely to predict the result of the organism response to the action of irritator with an aim of prophylaxis of an ungrounded or harmful impact, selection of individual doses of restoration treatment, an adequate and optimal training correction to maximally efficiently increase the functional reserve opportunities of the organism thus creating an objective basis for diagnostic conclusions and expert solutions.

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PARAMETERS OF LUMINOL-ZYMOZAN- AND LUCIGENIN-DEPENDENT
CHEMILUMINESCENCE OF HUMAN BLOOD

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It is known that the antianginal drug Preductal® and the immunomodulatory drug Arbidol® exhibit antioxidant activity. We studied if the “informational copies” of these drugs, prepared according the procedure developed by specialists of DST-foundation (<http://www.dst-fund.ru/ajtest/general-info/>) can influence the parameters of the processes with reactive oxygen species participation taking place in whole non-diluted human blood. Effects of “informational copies” of Preductal® and Arbidol® downloaded from the site Newpharm.ru on clear compact discs (CDs) on Luminol-zymosan- and Lucigenin-dependent chemiluminescence (LMZM-CL and LC-CL) of healthy donors' blood and of blood of patients with chronic obstructive pulmonary disease (COPD) before and after treatment with acetyl cysteine were evaluated. Incubation of blood on a CD with the “informational copy” of Preductal® resulted in a statistically significant decrease of both LMZM-CL and LC-CL intensity both before and after the treatment of a patient. In some cases the results were statistically significant and in others the trend to CL decrease was registered. Inhibitory action of the “informational copy” of Arbidol® on CL of COPD patients' blood was less obvious. Both “informational copies” did not have any effects on healthy donors' blood. The data suggests that “informational copies” of medical drugs may exert significant effects on the processes with ROS participation going on in blood of some patients with COPD diagnosis.

INNOVATIVE APPROACH TO THE INTERACTION OF HUMAN AND LIVING SPACE

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It is well known that the living space affects the human being. Conversely, a person affects the space. This has been shown in our previous studies. The most interesting is the question of formalizing (measuring) the extent of these impacts, in order to bring scientific basis to this field. The “AVD” company (www.avdspb.ru) works to manifest this.

There is no absolutely stable signal, as there are many different factors that affect it. Let's assume that the higher is the deviation of the measured value, the higher is its activity. Activity Level of Space (ALS) – is a measure of the overall activity of all the physico-chemical and structural characteristics of space in time. Thus, the stable all the possible physical and chemical characteristics of the space, the lower will be the ALS. For measurements of ALS we use specially developed device called “EPI/GDV Eco-Tester”, and the methodology of processing the obtained data developed by author.

Our body, as well as space, is characterized in each period of time by the specific rate of processes (you may call it metabolism) occurring in it. Depending on the ALS metabolism can rise and fall.

The “AVD” company has conducted the following studies: first we measured the ALS of the bedroom; then we have measured with GDV Compact device people before the night and right after they woke up; we calculated the difference in EPI/GDV parameters between these two captures; finally we have compared the ALS and this difference in EPI/GDV parameters. These studies allowed to find ALS norms that correlate with person's energy level changes. At the present moment more than 20 people were measured. Studies are continuing. This database allows us to predict the effect of the bedroom on a specific person basing on the measured ALS value.

ANALYSIS OF KIRLIAN LUMINESCENCE IMAGES OF WATER DROPS ON X-RAY FILM

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Kirlian photographs of water drops obtained by fixing their gas discharge at the X-ray film were used as the input data for the analysis.

A number of interrelated criteria for the evaluation of energy and information conditions of water were formulated: crown width of illumination with availability of clear streamers in it, the characteristics of the crown inner area (the presence of blackouts, granularity), the presence of the second corona glow as structures of thin streamers. Executed studies proved by given the experimental data allow making conclusions about necessity of using the developed evaluation criteria of bio-energy and information properties of water in combination with the formation of an integrated indicator.

Computer analysis based on pixel brightness histogram, envelope of the histogram, image binarization by threshold of luminance as well as creation of a brightness profile was carried for the first time, and the methodology of flicker-noise spectroscopy was used. The listed methods have provided performance of qualitative analysis of Kirlianograms of water samples and also they gave a quantitative estimate of properties of specific zones of the image. According to the computer analysis data of Kirlian images of water drops the parameters characteristic of tap water, natural water as well as water from the holy sources in comparison with distilled and melt water were stood out.

DEVELOPING INDIVIDUAL ADAPTATION POTENTIAL

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Nowdays adaptation potential is described as adaptive preparedness for individual adaptation(physiological, psychological, social).

Aim of the study was to find outpeculiaritiesin psycho-energetic characteristics among the individuals with different adaptation potential (AP). The articleincludes the results of several experiments - 2007, 2012 .

As a study group was taken a creative team which developed high adaptation potentialby special trainings and working for many years in improvisation mode in dance, music, original and other genres.

Study Results.1. Both for psycho-emotional characteristics (GDV-grams without filters)and basic energy body level(GDV-grams with filters)high individualAP shows:

- higher levels of homeostasis (significantly lower rates for Form Factor, the uniformity of GDV-grams fragments), which indicates ability to maintain psycho-energetic potential.
- higher Noise Level, which indicates the capacity to pass a greater amount of energy-information processes.

2. In psycho-emotional characteristics (GDV-grams without filters) high APindividuals have:

- significantly larger Energy Field, that means higher potential in functional energy, low amounts of energy-deficient states.
- significantly higher Fractalityof contour lines, that means energy structure changesand possibly indicates a greater behavioral and emotional stability.

3. In basic energy body level (GDV-grams with filters) High AP individuals shows changes in the form ofGDV-grams (significantly higher rates for Radiusand Entropy of contour lines) which indicates more stored energy of individual.

SCIENCE OF COMPASSION

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This paper presents a scientific pathway for compassion. The framework presented is for individual, organizational, national, and global transformation and peace. With the framework, an individual may progress to any extent possible for a human being all the way to enlightenment. However, there may be an upper limit to how much progress is possible for specific nations or on a global scale but diligent pursuit of the ideas and concepts should lead to more compassionate nations and a more peaceful world.

A NEW WAY OF THERAPY BASED ON WATER MEMORY-INFORMATION:
THE QUANTUM BIOPHYSICAL APPROACH

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This work firstly introduces some of the priors of Quantum Biophysical Semeiotics (QBS), necessary to grasp the meaning and significance of deterministic chaos and quantum behavior in biological systems.

Secondly, some experimental clinical evidences of Water Memory-Information are presented and explained through QBS tools, which are able to state if there is activity improvement of well defined biosystems under quantum energized water action.

QBS diagnosis allows an effective preventive therapy of pre-metabolic syndromes through quantum – water feedbacks, directly acting on the genetic causes of the most serious potential diseases such as, i.e., cancer, T2DM, brain disorders and CAD.

ABOUT THE PROSPECT OF USING THE DICHROMETER TO STUDY THE
PHYSICAL MECHANISM OF INFLUENCE OF THE HEALER ON THE
PATIENT

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Studies of the physical mechanism of influence of healers on patients represent an urgent scientific problem. Here various diagnostic methods are already used including those for research of models: process simulators. The most successful models use the "nanopipe" ("structured") Bingham Water like Hank's solution.

When the unspecified super-weak physical ("energy-informational?") fields "of the healer" interact with water solutions clusters are formed: complexes of "long molecules", with a number of specific properties, including abnormal optical activity. Therefore such "nano-pipe water media" can be considered as peculiar sensitive elements, "water sensors". (Optical activity is a property of some substances to cause rotation of the polarization plane of plane-polarized light passing through them).

The first series of experiments on the influence of "the operator of cosmo-energy channels" on Hank's water solution showed high sensitivity of such "sensor" to "strange healing". Here the development of ISAN, a portable dichrometer SKD-2MUF has been successfully applied.

The paper informs on some preliminary measurement results. However the relevance of the problem of search for adequate diagnostics in this area of nonconventional sciences, according to authors, obliges to urgently note the prospects of new diagnostics with application of Circular Dichroism Spectrometers.

CORRECTION OF ENERGY ASYMMETRY
OF THE HUMAN BODY BY GDV- AUTONZOZODS

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The GDV-diagnostics reveals the energy asymmetry of the human body and to monitor the dynamics of its recovery during different treatments.

In allopathic medicine, in some cases, with a high efficiency autonozods used method of treatment, for example, autohemotherapy in various dilutions. But, more generally, to the extent possible it is used in the method homeopathy medicine. As can create autonozods with various biological fluids and secretions humans (blood, mucus, etc.) by rewriting the information with them on a neutral carrier (water, homeopathic barley) in different dilutions. Similarly, the creation of bioresonance (public and private) of drugs through the removal of magnetic induction sensor information from the affected organ or organism as a whole and write it to the media. When tested by the method of R.Voll or VRT (vegetative resonance test) on the resonant response of the body can accurately determine the potency, dose and frequency of administration of the drug, monitor the dynamics of body condition, correction of treatment.

Studies have shown that, in some cases, the presence of good adaptation reserves, the absence of cancer pathology, scar interference fields energy asymmetry (detectable by the GDV, R. Voll) can be effectively eliminated non-drug treatment for autonozods created by recording the information to both the general, and private GDV-grams on a neutral carrier (homeopathic pellets). The technology of creating autonozods by GDV-general (private) bio-resonance of the drug and the resonant response of the method of assisted reproduction can hold it potentiation, to determine the dose and frequency of administration.

In 5 patients with various diseases and the condition of depression on a scale of HADS (anxiety ≥ 10 points, depression ≥ 10 points), and the asymmetry of the GDV- 63 - 86%, Kact.. 3.7 - 4.5. the course of treatment, the total GDV-autonozod for 1 month. After the course of treatment in all cases of persistent marked positive effect (more than 2 months) with the significant ($p < 0.005$) reduction of GDV asymmetry.

GDV-GRAPHY IN THE CORRECTION OF STATOKINETIC FUNCTIONS WITH THE USE OF STABILOGRAPHY

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The statokinetic functional disorder is often detected in children with undeveloped phonetic-phoneme speech aspect (G.A. Kashe, Koltsova, L.V. Lopatina, O.G. Prihodko). This feature determines additional tasks related to the necessity of diagnostics and monitoring of motor functions in the course of correctional pedagogic work with primary (elementary) school pupils.

The objective of the study was to determine the efficiency of using GDV-graphy in monitoring and correction of statokinetic functions of primary (elementary) school pupils with phonetic-phoneme speech disorder (PPD).

At the stage of diagnostics we solved the problems of studying statokinetic functions of primary (elementary) school pupils with PPD by stabilography method; evaluation of their energy and functional state by GDV-graphy was also carried out.

The following programs were used for evaluation of human energy and psycho-physiological state: the GDV Capture, designed for working with GDV devices, GDV Energy Field, GDV Diagram. Evaluation was carried out on the basis of the analysis of activation coefficient and integral glow area parameters. Diagnostics of statokinetic functions was carried out with the use of stabilographic techniques: Romberg Test and "Target" Test. The research of statokinetic functions showed a low statokinetic function level with 20% of children, medium level with 40% of children and high level with 40% of children.

GDV-graphy parameters at the initial stage of diagnostics, on the whole, corresponded to the detected levels of development of motor functions. Thus, 30% of the examinees showed a high level of GDV parameters according to the activation coefficient level and integral parameters of the energy field; 40% showed a medium level, and 30% were related to low level GDV parameters. This group, as a rule, included children with low and medium levels of development of statokinetic functions. The

GDV data demonstrated, on the whole, the same tendencies that were characteristic for the parameters of development of statokinetic functions which is an evidence of a possibility of using GDV-graphy in diagnostics of statokinetic functions.

Correction of the detected disorders was carried out as functional training using the software-hardware facility "Stabilan-01" and a number of stabilographic techniques.

The number of training lessons was determined according to individual training routes of the pupils and depended on the level of development of statokinetic functions.

In the course of the correction work we had an opportunity to follow the features of changes in the energy and functional state of the children earlier referred to different levels according to the GDV parameters. As an example, here are the data of one of the examinees taking part in the experiment.

Polina S. (8 years old). By results of the initial diagnostics she showed a medium level of development of statokinetic functions and GDV parameters. In the process of functional training the girl showed an increased interest in tasks and achieved a positive result. After nine lessons the diagnostics of her statokinetic function state was repeated and resulted in the parameters close to norm. Diagnostics by GDV-graphy confirmed this tendency: we obtained the parameters of the energy and functional state close to normal.

It should be noted that the coincidence of tendencies in the change of statokinetic functions and GDV parameters was observed with all 30 examinees taking part in functional training. The experimental work on studying the possibilities of including the GDV technique in diagnostics and monitoring of statokinetic functions of primary (elementary) school pupils with PPD in the course of their correction gave us an opportunity of obtaining the results that were an evidence of a sufficient informativity of GDV-graphy and efficiency of its application in the correctional-pedagogical work.

INTRODUCTION OF THE GDV-GRAPHY METHOD INTO PROFESSIONAL TRAINING OF TEACHERS AND PSYCHOLOGISTS

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One of the most important problems of professional activity of special teachers and psychologists is psycho-pedagogical studying of features of psychophysical development and educational opportunities of persons with limited opportunities of health (further with LOH). In the course of training students have to seize an ability to organize and carry out psycho-pedagogical examination of persons with LOH for the purpose of specifying the structure of violation for the choice of an individual educational way, and also, to carry out dynamic supervision over a course of correctional developing influence for the purpose of assessment of its efficiency. One of the modern methods that enable us to solve these problems is GDV-graphy. The speed of diagnostics, high reliability and informational content of its results characteristic for the GDV-graphy method make it very promising in the organization of diagnostics and monitoring of correctional and pedagogical activity. Therefore, beginning from 2009, we started to consistently include the GDV-graphy method in professional training of teachers and psychologists who get their education in FGAOU VPO "Southern Federal University" in the direction 050700 "Special (defectological) education".

In 2009 we developed and introduced into the curricula of the specialties 050715 "Logopedics" and 050717 "Special pre-school pedagogics and psychology" (the direction 050700 "Pedagogics") a special course "Modern methods of functional diagnostics in special education" within which, along with methods based on biofeedback, students got familiar with the GDV-graphy method and mastered practical skills of its use when carrying out comprehensive diagnostics of pupils with LOH. Since then the GDV-graphy method has been used in research work of students and during the work over the term papers and theses.

With introduction of the new federal educational standards of

professional education and establishing of the new direction of training 050700 "Special (defectological) education", beginning from 2011 we developed and introduced into the curricula of profiles of bachelor preparation "Logopedics" and "Preschool defectology" another discipline - "The GDV-graphy methods in comprehensive diagnostics of children and teenagers" which is completely devoted to the GDV-graphy method and the possibility of its use in the educational process. Thus presently the students-defectologists (speech pathologists) gradually master the GDV-graphy possibilities.

At the first stage, within the educational practice on the basis of the Department laboratory, students get familiar with the GDV-graphy method and the GDV Camera. They are told about the historical background of the method and are provided with the basics of method, its features and opportunities and spheres of its application.

At the second stage of the course "Modern Methods of Functional Diagnostics in Special Education" the students get familiar with the modern software of the GDV-graphy, master the initial skills of working with the GDV Camera during laboratory studies. At this stage a group of students who study this method more profoundly and further use it in the research work is selected.

At the third stage of studying the course "The methods of GDV-graphy and Complex Diagnostics of Children and Teenagers" the students deepen their knowledge and skills in the use of the method and carry out practical training in diagnostics of pupils under the leadership of a teacher. At this stage, as a rule, the research work of students connected with use of the GDV-graphy is also carried out. So far, 7 degree theses and 10 term research papers with the use of GDV-graphy have been successfully defended by students of the daytime form of education and education by correspondence. The works proved the efficiency of using the GDV-graphy both for detection of features of pupils' development, and for assessment of the efficiency of the correctional and pedagogical activity. Results of the research work of students are published in the collections of scientific conferences and in scientific- and-practical journals.

The studies of GDV-graphy proceed also at the stage of preparation of Masters according to the "Integrated Training of Persons with Limited

Opportunities of Health" program (the direction 050700 "Special (defectological) education". Within a methodological seminar, the undergraduates get familiar with researches in application of the GDV-graphy in psychology, pedagogics, medicine, and sports.

Finally, while realizing the programs of professional retraining "Logopedics" and "Special pre-school pedagogics and psychology", and also programs of professional development of teachers and psychologists, the listeners also get familiar with GDV-graphy studying the discipline "Modern Methods of Functional Diagnostics in Special Education".

Thus, we consider that it is possible to speak about the experience of creating a complete system of students' mastering the GDV-graphy method within the direction 050700 "Vocational (defectological) education", realized at FGAOU VPO "Southern Federal University".

THE USE OF THE GDV COMPACT FOR THE ASSESSMENT
OF ENERGY STATE OF THE ORGANISM
IN THE CONDITIONS OF ECOLOGICAL COMFORT

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The Angarsk Scientific and Commercial Association "SibVerS" used its own technology (Patent RU126421 U1) for development of a complex of effective products for creation of ecological comfort both at workplace, and at home (see Proceedings of XVI of the International Scientific Congress "SCIENCE. INFORMATION. SPIRIT", 2012, p. 419-427)

The complex includes the converters of negative emissions for protection of man against harmful effects of electromagnetic radiation and geopathic zones, a water-and-food activator and a corrector of human biofield.

Using the GDV Compact on more than 200 examinees it was established that within 20 min. of their stay in "a zone of ecological comfort" not

only the energy state of the biofield, but also the energy of internal organs and systems undergo serious changes. 4 types of the energy changes depending mainly on the initial energy states of the examinees, including those who use various energy stimulators, for example, biocorrectors, eniomodulator, dietary supplements, yoga, meditation, etc. have been defined. Results of measurements of their biofield energy state and the integrated area of organs and systems before and after staying within 20 min. in the conditions of ecological comfort are presented. The obtained results make it possible to draw an unambiguous conclusion on how it is important to live and work in the conditions of energy comfort.

DIAGNOSTICS USING THE SOFTWARE-HARDWARE FACILITY “VEDAPULSE” BASED ON THE ALGORITHMS OF AUYYVEDIC MEDICINE

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Traditions of pulse diagnostics have been widely spread due to works of Tibetan, Chinese and Ayurvedic schools.

In the medical source of the traditional Ayurvedic medicine “Ashtanga Hridaya Samhita” there is the text describing the methods of diagnostics: darśana-sparśana-prāśnaiḥ parīkṣeta ca rogiṇam |

Rogi (the patient) is to be examined by methods of darśana (examination), sparśana (palpation) and prāśnaiḥ (questionnaire) (AHS Su, 1.22).

The term sparśana corresponds to the method based on touching the patient. Touching or palpation includes first of all pulse examination. Apparently, pulse examination was first included into Ayurvedic medicine by Sharngadhara in his work “Sharngadhara Samhita” (14-th century).

Modern technologies of biosignal registration and mathematical

analysis combined with empirical knowledge of traditional Ayurveda made it possible to develop an algorithm for evaluating an individual patient's state. This evaluation lay in the basis of the individual-typological approach to therapy, rehabilitation and prophylaxis.

On the basis of assessing the heart rate variability characteristics a quantitative evaluation system of the psycho-physiological constitution of the patient has been developed according to the algorithms of traditional Ayurvedic medicine (the authors are Oleg Sorokin and Mikhail Subotyalov). This approach has been realized in the development of the hardware and software facility (HSF) "VedaPulse" (the registration certificate № ФСР 2011/12389, the manufacturer - LLC "Biokvant", Novosibirsk, www.vedapuls.ru). This made it possible to link the capabilities of modern electrophysiology with Ayurvedic medicine for individualizing the naturopathic recommendations.

The approaches realized in the SHF give the possibility of quantitative assessment of the patient's health and to use all the arsenal of phytotherapy, aromatherapy and diet therapy. Thus we can realize the following:

1. Individual selection of medical herbs, essential oils and food products.
2. Possibility of choosing recommendations taking into account the nosological filter with specified diseases.
3. Description of the technology of preparing and the method of using of medications.
4. Creation of a list of medications being undesirable.
5. Formation of rating of medicinal-and- health normalizing means.

Thus "VedaPulse" can be used in the practice of naturopathic means and methods for patients' examination in dynamics and for individualizing the naturopathic recommendations.

EFFECT OF «INFORMATIONAL COPIES» OF PREDUCTAL® AND ARBIDOL®, DOWNLOADED ON COMPACT DISCS ON ENERGETIC ACTIVITY OF ARTESIAN WATERS

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Effects of “informational copies” (IC) of medical drugs Preductal® and Arbidol® upon energetic activity (EA) of artesian hydrocarbonate waters “BioVita”, “Svetla” and “Cone Forest” were studied. EA was evaluated as the height of the amplitude of the wave of luminescence induced by addition of Fe(II) to water since parameters of photon emission from water are related to the intensity of energy-generating free radical reactions proceeding in it. ICs were downloaded from the Internet site Newpharm.ru on compact discs (CD). Vials with water were incubated in parallel on the “informed” or control CDs and EA in experimental and control samples of water were compared. It has been shown that in 14 experiments out of 24 performed during the period from 09.2012 to 03.2013, Preductal ICs statistically significantly attenuated EA of “BioVita” as compared to the control after 24 hr incubation of water on CDs. Out of 16 experiments with Arbidol ICs performed in September-December 2013 significant enhancement of EA in “BioVita” and “Cone Forest” was observed in 9 trials. However in February and March 2013 in 13 experiments out of 21 attenuation of EA of water under the action of Arbidol ICs was registered. Enhancement of EA in water “Svetla” in 7 experiments out of 9 after only 2 hours of its incubation on CDs with Arbidol ICs was observed again in April-May 2013. In most of the experiments where no significant difference between experimental and control water samples was observed “informed” CDs used were prepared more than 3 weeks before their usage. Thus CDs “charged” with ICs of medical drugs may for some time change structure-energy properties of water without direct contact of a CD with water. Besides there are indications that there exists seasonal specificity of water reaction to such informational influences.