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## Editoriale

Con un certo ritardo prende la via delle nuvole di Internet il numero 46 del CIFA NEWS di cui trovate gli ultimi 15 numeri sul sito del CIFA [www.cifafondation.org](http://www.cifafondation.org) .

Le recenti vicende che hanno interessato la Penisola della Crimea hanno portato alla sospensione della storica conferenza COSMOS AND BIOSPHERE e all'indebolimento delle solidarietà scientifiche forti nell'ex Unione Sovietica che in Crimea si riunivano. Un indebolimento grave per la grande scienza che pratica il cirillico come lingua dominante e per alcune aree scientifiche di confine che vi trovavano rifugio.

La scienza è senza confini come nella Stazione Stazione Internazionale.

Siamo un piccolo pianeta nel firmamento cosmico, molto fortunato, ma un po' troppo incosciente, colto da improvvisi quanto cronicizzati deliri di potenza. Deliri che ci fanno sfuggire troppo spesso dalla realtà della vista del Cielo di Notte o della Terra da un aereo che ci dovrebbero riportare al nostro senso di sé, all'amore per il Miracolo della Vita, minacciata dalle nostre beghe e dai nostri deliri di potenza.

Di questi temi si è parlato a Natale il 25 Dicembre a Novosibirsky, e troviamo una interessante rassegna sintetica degli interventi della giornata curata da Alexander Trofimov, uno degli ultimi premiati con l'Award Benveniste <http://jacques-benveniste.org/Valenzi-lettre-0907-I.html> nella IX conferenza COSMOS AND BIOSPHERE IN CRIMEA NEL 2013 .

L'emergenza climatica discussa a COP 21 a Parigi i primi di dicembre <http://vglobale.it/clima/17836-un-inverno-a-targhe-alterne-e-la-salute.html> ci si può domandare se sia collegata solo alle attività umane figlie della modernità industriale o siano anche il frutto del COSMIC WEATHER, di cui si è parlato in Siberia a Natale. A Novosibirsky si sono esaminati anche gli effetti del Clima Cosmico (non solo la radiazione solare e l'influsso lunare) sulla salute e sulle emozioni, sul sistema cardiovascolare che sono sensori di eccellenza degli influssi cosmici.

Piero Faraone Microbiologo, studiò gli effetti degli influssi cosmici sulle colonie batteriche e potete trovare nei numeri precedenti di CIFA NEWS diversi articoli in merito, che ci informano come anche i batteri possano essere oggetto delle influenze cosmiche e non soltanto le reazioni chimiche border line come quelle studiate dal prof. Giorgio Piccardi attraverso la precipitazione di Sali nelle

in provette o attraverso i cambiamenti di stato in un enigmatico Storm Glass usato nel passato anche per le previsioni meteo.

L'Uomo moderno si trova davanti al travolgente sviluppo socio economico che ha reso il Pianeta Terra un luogo dove la Natura rigogliosa ha dato come frutto più alto l'UOMO. Sarà bene che rifletta su di sé e serva la bellezza e il miracolo della Natura che sul Pianeta si esprime. Chernobyl, Fukushima poi e i continui allarmi per l'inquinamento chimico ed elettromagnetico urbano ci indicano che dobbiamo andare oltre le febbri del Mercato che nella gara per conquistare spazi non guarda al Bene Pubblico e alla sicurezza dell'Ambiente.

È anche questa oggi la sfida che la Comunità Scientifica è chiamata a vincere con il Mondo economico e il Potere Pubblico, che non possono dimenticare che il tutto si dovrebbe fare nell'interesse primo dell'Uomo e della suo Ambiente. In un equilibrio tra Stato e Mercato dinamico, ben orientato al bene primario della protezione dalla Salute e dell'Ambiente Locale e Cosmico. Un lavoro che deve continuare con la Comunità Scientifica di COSMOS AND BIOSPHERE che deve tornare a riunire gli sforzi per conoscere e governare la nostra vita nel VILLAGGIO GLOBALE, e nel COSMO anche oltre la conquista della Luna e di Marte, per la quale sarà essenziale la comprensione delle possibilità di vita a Gravità Zero, oltre che a Terra dove le complicazioni tradizionali (meteoropatie, e quelle moderne inquinamenti di ogni tipo) rendono la vita tanto più ricca quanto più complicata come l'iceberg delle Multi-sensibilità chimiche e il dilagare delle allergie ci informano. Anche per questo si deve rilanciare la Climatoterapia Montana e sviluppare la ricerca per ridurre le reazioni avverse ai farmaci che intimoriscono le famiglie e anche i medici alle prese con la medicina difensiva da superare con la terapia di precisione guidata dalla farmacogenomica quando sarà e dalla farmacoelettrodinamica già da subito magari completando quegli studi in doppio cieco che sono stati affondati al Comando Generale della GDF di Roma nell'anno 2000 <http://www.22passi.it/downloads/biorisonanza/qeddefinitivo.pdf> .

Di tutto ciò troverete news e approfondimenti in questo numero che dopo aver ritardato tre anni conta di farsi perdonare con il suo vivace quanto triennale contenuto.

Vincenzo Valenzi

Presidente CIFA

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## IL MIO INCONTRO CON GIORGIO PICCARDI

Nell' agosto del 1960, mentre ero al lavoro presso il Centro Microonde del C.N.R. di Firenze ( successivamente Istituto di Ricerca sulle Onde Elettromagnetiche e nel 2002 Istituto di Fisica applicata Nello Carrara ) e facendo parte di un gruppo di ricerca sui satelliti artificiali, ricevetti una telefonata del Prof. Piccardi che mi chiedeva l'orario dei passaggi su Firenze del satellite ECHO 1, lanciato qualche giorno prima ( 12 agosto ) . Era il primo esperimento di satellite per comunicazioni della NASA. Si trattava di un pallone metallizzato che si gonfiava una volta che era entrato in orbita, raggiungendo il diametro di 30,5 metri e quindi visibile ad occhio nudo, che agiva da riflettore passivo di segnali radio – televisivi e telefonici permettendo comunicazioni intercontinentali oltre a studi su dei parametri solari.

Da tempo mi ero interessato delle ricerche del Prof. Piccardi e colsi l'occasione per dirgli di questo mio interesse. Egli mi rispose con grande gentilezza e cordialità invitandomi ad andarlo a trovare.

Questo incontro avvenne qualche giorno dopo nel suo studio e nel suo laboratorio presso l' Istituto di Chimica Fisica dell' Università di Firenze, di cui era Direttore dal 1947.

Quello che mi colpì fu la dimensione dell' Uomo che mi trovavo davanti: un grande sapere scientifico unito ad una grande modestia, una serietà, una serenità ed una nobiltà d' animo che mi sconvolsero. Doveva affrontare i problemi dell' impatto dei suoi nuovi paradigmi scientifici scaturiti da una ventennale ricerca che aveva dato i suoi frutti, contro un mondo scientifico italiano avverso a questi cambiamenti, tutto questo affrontato con calma e con il suo sorriso, che non lo ha mai abbandonato.

Rimasi affascinato quando mi parlò di quel liquido misterioso che è l' acqua e della sua attivazione, della sua “ ipotesi solare” e delle sue collaborazioni internazionali.

Da questo incontro nacque una amichevole collaborazione, il Professore mi parlava del procedere delle sue ricerche e mi dava copia delle sue pubblicazioni ed io gli fornivo varie notizie soprattutto nel campo delle onde elettromagnetiche.

In questo mio articolo tratto dei miei contatti e di alcuni aspetti meno noti, rimandando al libro stampato nel 1994 e ristampato nel 2012 ed ancora reperibile: “ I SEGRETI DELL' ACQUA – L' opera scientifica di Giorgio Piccardi “ di Paolo Manzelli – Giancarlo Masini – Mariagrazia Costa della Casa Editrice Di Renzo Editore e con il contributo di Anna Piccardi (la minore delle tre figlie di Piccardi ), Enzo Ferroni, Carmen Capel Boute e

Silvano Bordi. Il libro è arricchito della bibliografia dei suoi scritti (raccolti in tre volumi custoditi nella biblioteca di chimica dell'Università di Firenze) per ulteriori approfondimenti.

Il Prof. Piccardi era molto interessato dell' influenza dei campi elettromagnetici naturali di radiofrequenza ( atmosferici ) sull'uomo, soprattutto nella frequenza di 10 KHz dove l' intensità del segnale è maggiore. In laboratorio aveva allestito un sistema di misura per riprodurre questi effetti sui test chimici ottenendo una perfetta corrispondenza rispetto ai campi naturali.

Utilizzava un generatore a 10 KHz prodotto da una ditta fiorentina e volendo perfezionare queste misure mi chiese se mi potevo interessare presso il Centro Microonde per avere consigli ed aiuto; lo chiesi al mio Direttore ottenendo un rifiuto ed un invito a non interessarmi di queste ricerche. No comment !

Piccardi era in contatto con il Prof. Winfried Otto Schumann ( Tubingen 1888-1974 ) noto per la sua "risonanza". La risonanza di Schumann avviene perché lo spazio fra la superficie terrestre e la ionosfera si comporta come una guida d'onda risonante nel campo delle onde elettromagnetiche a frequenze molto basse ELF ( extremely low frequency ) con la frequenza fondamentale di 7,8 Hz. Questa risonanza prevista matematicamente da Schumann nel 1952 e successivamente identificata ( già nel 1905 l' aveva osservata Nikola Tesla ), è eccitata dall'attività delle scariche elettriche dei fulmini e mostrano variazioni diurne e stagionali di grande interesse per Piccardi.

Nel 1965 passò, per la sua età, fuori ruolo e preferisco citarvi testualmente quanto scritto nel libro che ho menzionato da parte dell' Ing. Carmen Capel Boute dell' Università Libera di Bruxelles e presidente del CIREFA ( Centro Internazionale di Ricerca e di studio dei Fattori Ambientali ):

" La routine dei test chimici non potrebbe continuare all' Università di Firenze dopo la sua messa in riposo nel 1965 ed il rifiuto del C.N.R. di finanziare la creazione di un " Centro di studio dei fenomeni fluttuanti " ( nota mia: No comment! ); ma Piccardi potrà installare un suo "Centro Universitario Fenomeni Fluttuanti" ( CUFF ) di fronte all' Università, dove saranno eseguiti fino a tre mesi prima della sua morte. Anche a Bruxelles la continuità potrà essere assicurata per 22 anni dal 1956 al 1978, grazie ai locali accordati dall' Università al CIREFA"

Le ricerche di Piccardi sia come Università che come CUFF si diffusero in tutto il mondo raccogliendo un pubblico eccezionalmente vasto di cui cito, oltre l' Università di Bruxelles: -Routines di test chimici in Giappone presso l'Università di Kumamoto.

-Routines di test chimici nelle Isole Kerguelen (Oceano indiano a cura del Comitato Scientifico delle Terre Australi ed Antartiche Francesi.

-Stazioni di osservazione sparsi in 24 luoghi della Terra durante l' Anno geofisico internazionale, l'Anno Internazionale del Sole Quietista e di quello del Sole Attivo.

-Ricerche presso il National Center for Atmospheric Sciences, Boulder, Colorado, USA.

- Un editore statunitense specializzato in argomenti medici di Springfield gli chiese di scrivere un libro su queste ricerche ed il libro uscì nel 1962 con il titolo: "The chemical basis of medical climatology" tradotto nel 1967 in URSS dove ebbe un'ampia diffusione. Non esiste traduzione italiana.

-In URSS le ricerche furono molto diffuse fin dall'inizio su tutto il territorio a Mosca, Leningrado, Tomsk, Sochi, Tbilisi, Tallin, Riga ecc.

Ad Alma Ata nel Kazakistan le operazioni più delicate al cuore venivano effettuate in sale operatorie blindate da pareti di rame per evitare influenze causate da fattori esterni sul sangue ( sostanza colloidale )

Il Dipartimento di Biologia Generale dell' Accademia delle Scienze dell' URSS progettò una rete mondiale di basi biologiche ( Global Baseline Station ) secondo le direttive del programma l' Uomo e la Biosfera in cui sarebbe entrato a farne parte il CUFF.

Durante l' International Solar-Terrestrial Symposium a Leningrado nel maggio 1970 fu discussa l'idea di Piccardi della relazione delle proprietà fisiche dell'acqua coi campi elettromagnetici naturali di bassa frequenza e coi fenomeni fluttuanti.

Ed altro ancora....

Il 7 novembre del 1969 Piccardi salutò la nascita ufficiale come presidente-fondatore del CIFA ( Comité International de Recherche et d'étude de Facteurs de l' Ambiance ) riconosciuto dal Governo belga, con sede a Bruxelles e come obiettivo (citando sempre Capel Boute ) "l' organizzazione, su scala internazionale, di una cooperazione interdisciplinare nella ricerca e lo studio scientifico di fattori dell'ambiente che sono all' origine di fenomeni fluttuanti nelle scienze esatte, naturali ed umane ".

Giorgio Piccardi morì il 22 dicembre 1972. L' Università Libera di Bruxelles nell' annunciarlo in varie lingue a tutti i centri di ricerche sparsi nel mondo, comunicò:

"A tutti coloro che hanno avuto il privilegio di incontrarlo, Egli lascerà il ricordo di un uomo del quale la semplicità e l'estrema gentilezza erano le espressioni naturali di un grande cuore e di una intelligenza sottile, pronta a cogliere l'infinita diversità dei comportamenti e delle conoscenze umane e le loro oscure relazioni. Per la sua cultura, per la fecondità della Sua opera, Egli era uno dei grandi umanisti il cui pensiero si è irradiato nel mondo ad onore di Firenze ed in particolare di noi, suoi colleghi ed amici"  
Silvano Ceccarelli

## RESOLUTION

**Novosibirsk International Conference on «GLOBAL GEOECOLOGICAL SYSTEMS FOR HUMANITY SURVIVAL AT THE EPOCH OF COSMOPLANETARY AND CLIMATE CHANGES»,  
carried out by ISRICA named after Academician VP Kaznacheev, December 25, 2015  
within Pre- Conference Workshop of 5-th International OMICS GROUP Conference  
«Earth Science and Climate Change» (Tailand, Bangkok July 25-27, 2016)**

1. Strengthening of the world's technocratic tendencies, depleting the energy resources of the Earth, combined with heliogeophysical and climatic transformations that include changes in space-time coordinates of the solar system are influencing on the biosphere and will have significant evolutionary consequences for humanity.

2. Participants of the Pre Conference Workshop, Novosibirsk, support the Solutions of "climate summit", held in Paris in November-December 2015, and calls for an expansion of scientific research of natural systems and processes, the strict implementation of the decisions adopted at the summit, to the development of scientific and technological control under emissions of "greenhouse gases" and to the development of the complex of the programs and means, having adaptive and protective properties for a man.

3. In conditions of cosmoplanetary and climate change, threatening the growth of morbidity and mortality and even the existence of mankind, it is necessary to create a Global system of geoecological life-support, international, interdisciplinary program that provides monitoring of technogeophysical and heliophysical environment, long-term forecast of "cosmic weather", the development of non-medicinal protective technologies, and the creation of new research institutes of bio-helio-geoecology.

4. Water, as an indicator of the state of cosmic-aqua-sphere should become an essential element of the Global System of geoecological life support that is capable to protect the biosphere and humanity from extreme technogenic and heliophysical impacts in conditions of natural geomagnetic deprivation and climatic collisions.

5. Long-term cycle of ISRICA scientific research, directed to modeling of psycho-biotropic effects of the weakened geomagnetic field and condensed flows of "energy-time", allowed to develop and test in Russia and Bulgaria the effective light-water-holographic helioprotective means, patented by ISRICA, ready to wide industrial production and use throughout the world.

6. It is necessary to accelerate the scientific development and introduction of helio-geno-gero-protective technologies, computer diagnostics systems such as a "Helios" (Ltd "Biokvant", Novosibirsk, Russia), and other complex methods, designating new horizons of conservation of gene pool of humanity, human adaptation to changing climatic-helio-geophysical conditions and the improvement of people health on the basis of the development of principles of noosphere-preventive medicine and spiritual harmonization of the person.

7. Resolution was adopted at the Pre Conference Workshop unanimously by 32 participants (speakers and guests of the discussion table, figures of science, culture and business) from 4 countries (Russia, Bulgaria, Ukraine, Italy), including from 8 cities in Russia (Moscow, St. Petersburg, Novosibirsk, Hkanty-Mansyisk, Yakutsk, Voronezh, Saratov and Tomsk) December 25, 2015 in Russia, Novosibirsk Academgorodok, ISRICA named after Academician VP Kaznacheev.

## **SYNTESIS FROM ALEXANDER TROFIMOV OF COMMUNICATIONS**

A WAY OF HUMANITY SURVIVAL AT THE EPOCH OF COSMOPLANETARY AND CHANGES ACROSS THE CREATION OF GLOBAL GEOECOLOGICAL SYSTEM  
Review of the presentations of Novosibirsk Pre Conference Workshop at December,25, 2015

Alexander Trofimov

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At the December 25 2015 at Novosibirsk's Academgorodok taken place very important scientific conference «Global geoeological systems for humanity survival at the epoch of

cosmoplanetary and climatic changes», organized by ISRICA as the Pre- Conference Workshop of 5-th International Conference of OMICS GROUP «Earth Science and Climate Change» with participation of 32 speakers from 4 countries ( Russia, Bulgaria, Ukraine, Italy), from 8 towns of Russian Federation ( Moscow, Sankt-Petersburg, Novosibirsk, Yakutsk, Tomsk, Saratov and others). You could see now some fragments of this presentations with point of view of Organizer

**Professor Alexey Dmitriev( Novosibirsk, Russia** spoke, that our planet Earth now is in condition of change of spatio-temporal coordinates (location) inside the Solar system. Planetophysical changes includes climatic changes, weather's clashes abnormal phenomena of hydrological cycle, and destructive atmospheric processes of increasing diversity, and growing energy intensity of new processes, and expanding spatial distribution over the face of the Planet Earth. This is: and events developing in hydrosphere of the Earth, for example rapid melting of polar and circumpolar ice caps; and degradation of planetary frigidity; and threats of new generation in lithosphere – earth crust – for example the continental synchronization and increase of energy intensity of volcanic activity; increase of frequency of occurrence and surge of energy intensity of earthquakes. Particular trouble among the specialists on global ecology causes the processes of chaotization of local and continental climatic characteristics: exorbitant increase of distributed temperature gradients in the surface atmosphere; sharp modification of thunder and rain characteristics, for example per day it can “pour out” yearly rainfall what says about increasing anomaly of planetary thunder-activity. As a result of emergence of this “new generation” of natural processes and taking into account of technogenic energy induction (annual industrial energy production reached  $n \cdot 10^{28}$  erg) arose a real threat of global destruction of survival facilities in the Earth's biosphere (including human beings): floods, droughts, hails, tornados, hurricanes, cyclones, fires, holes in the earth's surface, becoming more frequent high-gradient unpredictable coolings.

Again it is necessary to point the role of disastrous phenomenon of synchronization of various destructive processes as an indicator of development of real and energy-intensive catastrophes. Time for disputes and all kinds of criticism is exhausted, the time of total mobilization of saving facilities and knowledge for survival has come. Planetophysical changes unconditionally broke out into life threat for milliards of people of the Earth and the system of general change of whole face of the Earth. Authority is still not paying attention to necessity of financing solution of problems of creation of a protective means

from already developing catastrophes. Available repertoire of protective means designed for governing top completely ignores vital interests of ordinary people. That's why it appeared to be that protection of ordinary people fall in their own hands and "state did not take care of them".

**Professor I.Mingazov (Novosibirsk, Russia).** Today's global climate change on the planet affect all climate stabilized factors and characterized by acceleration processes. Unfolded phase velocity of climate change Earth more clearly shifted towards the generation of new phenomenological series as part of normal planetary environments The climate system, as a dynamic part of the geological-geophysical and geospatial environment, operates in the energy and real multicomplex exchange machines. In this machine, each subsystem is functionally active link, linked into a single hierarchical pattern of interaction on the basis of the homeostatic principles of sustainability. In addition, each subsystem unevenly affects other subsystems and the overall system From this formulation the concept of climate implies that integrative climate machine, the state of which directly follows the state and life opportunities of the biosphere is in a constant auto-tuning as an open system for all variety of external (cosmic) influences. Therefore, each state of the climate (ice age and interglacial optimum) is the response of the evolutionary processes of geological and geophysical environment on the space program impacts. The transitional period is one of the climate of increased power consumption processes as a result of the interaction of stabilizing and perestroika series of natural processes. That is why forecasting schemes lose their reliability because the forecaster is not known outside (space) program climate stabilized factors impact on the Earth . Rapid changes in the Earth's climate leads to a new type of climate and biosphere equilibrium under the influence of cosmic, geological and anthropogenic modification means of geological and geophysical environment. The overall composition of the earth planetophysical changes occur as a consequence of space physics of the processes occurring in the solar system. The analysis of statistical data and indicators of the dynamics of the environment revealed a number of dependences the state of morbidity and mortality. The work was conducted for 35 years under the "AGIS-Health." In accordance with the program for many years, data were collected on the state of the environment, the state of morbidity and mortality, statistical processing of the parameters. With many years of studying the effect of environmental factors on the health of the population we have shown that the most powerful and high-speed factor affecting the state of health is the "rigidity climate" indicator of the rate of change especially the average daily air temperature and the rate of change of atmospheric pressure. So in "unfavorable days of fast changes daily average temperature" absolute figures the average daily mortality in Novosibirsk increased from 45 - 56 to 70 - 98 per day, and site visits ambulance crews to 1200 times per day up to 1900-2700 times .

"The environmental burden of disease" under the pressure of adverse environmental factors (polluted air, noise, increased level of electromagnetic and radiation load, poor quality of drinking water and food quality, speed changes in temperature and atmospheric

pressure, geomagnetic disturbances) affecting the population of Siberia, is an additional reason increased mortality. Price "of the environmental pressure" - an increased risk of premature mortality .

One of the main preventive measures to address the demographic and health problems and improve the quality of life of the population in many developed countries was a significant increase in per capita spending on health, the environment, medical research, innovations in diagnostics, treatment and prevention of diseases. Much attention is paid to prevention programs of healthy lifestyles, the fashion for good health, the policy of economic and social interest in health promotion, resulting in many developed countries have managed to reduce the mortality and life expectancy has become a much higher [Mingazov et al., 2007-2014].

**Ph.d S.Samsonov ( Yakutsk, Russia)** In the presented manuscript, the response of the healthy person, and person with the weakened adaptation opportunities on changes of space weather was investigated. For the purpose of revealing the real space weather effect on the human's health, there is an international Russian-Ukrainian experiment "Geliomed" displayed. Analysis of the experimental material let us show a synchronism and globality of this influence (simultaneous performance of space weather parameters at the state of cardiovascular system in groups of volunteers separated by 6000 km). The response of the cardiovascular system of the volunteers on changes in the space weather was even at slight values of the Earth's magnetic field. However, even at significant disturbances of the space weather parameters, a healthy person had not any painful symptoms, although, objective physiological parameters displayed changes. At the same time, the health of the people with weakened adaptive opportunities (patients with cardiovascular pathology), in the same conditions, may get worse up to heart attack and stroke. In the presented study the response of a healthy organism is studied, as well as of an organism with weakened adaptive abilities on the space weather changes.( Samsonov et al., 2015)

**Ph.d O.Volchek (Sankt-Petersburg, Russia)** think, that audial environment, with the most important components being speech, singing and music, is an essential part of human habitat. Both talking and active perception of speech, as well as musical and poetic creative processes, are inseparable from complex muscle activity of vocal apparatus and current psychophysiological status of individual. Also, dominating frequencies of single sounds of speech are reflected in individual's brain biorhythms, psychophysiological status and behavior.

Earlier, we have detected synergetic changes in speech perception indices and geocosmic weather indices, including time of day. The purpose of this study was to research occurrence of phonemes in poetic speech in relation to geocosmic conditions.

The following data was engaged in the study: 1) lyrics for vocal miniatures - songs and romances, 2) poems by G.Ya.Gorbovskiy, 3) poems from the digital version of the magazine Noviy Mir, with known dates of composition.

To calculate frequencies of occurrence of each sound, we used the computer software Euphony developed by K.D.Mikheev. The received numbers were juxtaposed with yearly average values for the indices IMF (interplanetary magnetic field), W (Wolf's number), Dst (geomagnetic activity), Kp (geomagnetic disturbance), NC (neutron current), ERR (Earth's rotation rate), temperature and precipitation in St Petersburg, Russia.

By now we have studied 3027 lyrics written in 1934-1989, 2460 poems by Gorbovskiy from 1954-2001 and 740 poems from Noviy Mir composed in 1989-2013. Multi-year variations of occurrence were revealed for each sounds in all three abovementioned sources of texts. The extreme values were significantly and reliably different, with Fisher's criterion at  $p < 0,001$ .

The analysis of correlations between a range of periods detected multiple persistent correspondences at  $p \leq 0,05-0,001$ . Patterns of correlations were different for lyrics and poems. Ranking of most influential geocosmic indices also varied depending on certain period and combination of environmental conditions.

For the lyrics composed in 1934-1989 the major leading factors were ERR, IMF and precipitation: 17, 14 and 16 correlations, respectively, at  $p < 0,05-0,001$ . Particularly, 8 ERR correlations were detected at  $p < 0,001$ .

Correlations were detected for most sounds but for some of them number of correlations was between 3 and 7. Apparently, environmental conditions influence psychophysiological status of poets and thus affect production of speech sounds.

The findings conform with our previously obtained results [Volchek O.D., 2006, 2013] and are

**Ph.d M.Trubina, E.Semova( Sankt-Petersburg, Russia)** thinks, that the scenarios of climate change created by the Coupled Model Intercomparison Project Phase 5 (CMIP5) during 2011-2060 evidence average annual temperature in some regions of Russia will increase by 1,6 °C - 7 °C.

The main risks for human health are connected with change of frequency and intensity of heat waves, spread of the southern infectious diseases in northern latitudes, emergence of earlier uncharacteristic natural and focal diseases and zoonosis. Development of effective measures for easing adaptations to climate change, demands medico-geographical approaches, creation of new biometeorological models, introduction of system of medical weather forecasts.

The purpose of work is the assessment of bioclimatic capacity of the Russian Northwest region at scenarios of climate change of RCP2.6, RCP4.5 and RCP8.5 during 2011-2060.

Research includes: biometeorological monitoring (creation of a multiparametrical database, calculation of the main biometeorological indexes), modelling of change of

biometeorology conditions on the basis of results of the CMIP5 model during 2011-2060, assessment interseasonal acclimatization by using the mathematical model created by V.A. Matiukhin.

Results of research will be applied to creation of medico-geographical electronic cards and recommendations about mitigation of adaptation of the population to climate change. 2004; Schnoll S.E., 2009, Sidorenkov N.S., 2014].

Global changes in the natural environment and changing climate, like those that we are experiencing nowadays, were one of the reasons for humans to evolve [Demenokal P. 2014]. They are supposedly one of the factors in evolution and development of language.

As we see, creating pieces of poetry and music is inseparably associated with natural environmental conditions, and poets and composers are taking it into consideration, both subconsciously and consciously. As a consequence, perception of music and its effect, as well as suggestive potential of speech, are influenced by current environmental conditions and are more evident in case of live performance. (Volchek, 2013, 2014)

**According to the opinion of Ph.d O.Sorokin, Ph.d A.Mokrousov (Novosibirsk, Russia).** environment is the source of disturbances, which constantly affect the body. All levels and regulatory mechanisms suffer from the factors of environment. Rhythmics of solar activity influences on human biorhythms. In such conditions, consistency of the inner environment of a person can only be dynamic. Homeostasis is supported by means of the stress of adaptation functions.

In case a pre-morbid condition has been formed in the body, a failure of adaptation is possible during stress. It is possible to follow the condition and peculiarities of the organism by observing the speed of response reactions on the influence of the natural stress factor.

It is possible to evaluate the functional condition of the vegetative nervous system by HRV method (analysis of the heart rate variability with the help of mathematical evaluation of the heart cycle duration, which allows determining the extracardiac influences on the heart rhythm by using VedaPulse HSC), which includes evaluation of the conditions preceding the disease. HRV method is recommended by the European Society of Cardiology and North-American Society of Pacing and Electrophysiology (1996), as well as the Board on Clinical-diagnostic Devices and Apparatus of the Committee on New Medical Equipment of the Ministry of Health of the Russian Federation (2000).

A new perspective method of the research on heart rate variability is the non-linear dynamics, including chaotic dynamics, detrended fluctuation analysis, study on entropy, and fractality of the heart rhythm. These methods significantly expand the possibilities of the classic complex dynamic systems.

We developed an intellectual system of monitoring of the bio-geo-heliophysical coupling – VedaPulse cloud service called Helios. It contains personal accounts, to which

results of evaluation of the condition of a tested person can be imported. In addition, it is possible to compare the dynamics of the functional indices with the dynamics of the natural factors – temperature, humidity, atmosphere pressure, parameters of the solar activity received from the NASA satellites and so on, which the program downloads automatically after detecting the geolocation. The service searches for mathematical connections between these parameters and chooses trigger factors, changing of which precedes the changes of a person's condition.

Our service provides the instruments for the research on biorhythmics, provided that there is a large user database – over 3000 people all over the world. The service can detect mechanisms of interrelation of macro- and microcosm, arm people with the instrument for detection of the risk group on meteosensitivity from different natural factors, predicts possible changes of the condition under the influence of the variable factor. ( Sorokin, Mokrousov, 2015)

**Professor V.Valenzi (Rome, Italy)** consider, that the main problem of Climate Change is connected to interaction between Cosmic weather influences, air pollution (chemical electromagnetic radioactive, ecc ) that affects water in its cycle and in biological process.

The ordering of water via coherent domains yields sufficient structure for significant memory capacity. Electrical polarization networks and the resulting filament magnetic flux and electric flux tubes in pure water should be measurable employing magnetic resonance imaging techniques.

It could be useful develop some measure and carry experiments to evaluate the change of state of water connected to these relevant impact of pollution and evaluate the correlate effects on human physiopathology( Valenzi et al, 2000-2008).

**Ph.d A.Zakharov, Ph,dN.Kulikova, Ph.d A.Vavilov (Moscow, Russia):** it is known that mentally unstable people are distinguished by low coherence of interhemispheric coupling, they constantly create small geomagnetic storms, bestir their organism, going further away from natural regimes of magnetic fluctuations in the organism and in the environment (A.N. Dmitriev). Disbalance in the work of hemispheres can be eliminated by the use of “autotrophic” heliosacrificing water, made in International Science and Research Institute of Cosmoplanetary Anthropoecology n.a. V.P. Kaznacheev. Though this correcting effect is limited in time, as the water eliminates only geoheliophysical imprints of the first year of life, but cannot effect dramatically artificial sources of electromagnetic radiation and typical inadequate psycho-emotional reactions of a person, which are aggravated by cosmoplanetary changes and frequently potentiate them. According to two-year experience of collaborative work of employees of “Noospheric Health Center” (Moscow), on the reflexory physical level inadequate psychoemotional states, actualized by cosmoplanetary changes, are stopped with acupressure, which leads to faster

harmonization of hemispheric work in the state of active psychophysical work of the person, in particular with the help of holodynamics.  
Consequently, in the era of cosmoplanetary changes it is most important to acknowledge a shift from modern medicine of the consumer society to noospheric medicine, when a person potentiates on his own mechanisms of personal health improvement on the bases of doctor's recommendations, who performs a coach's function of individual adjustment and start of mechanisms of health preservation and health development.(Zakharov, Kulikova,Vavilov, 2015

**Professor A.Antonov(Bulgaria), A.Trifonov (Bulgaria), Doctor of Medicine A.Trofimov (Russia)** poster presentation about investigations of water structure changes, influenced by holograms, through the method of water energy influenced spectrum, **the authors presented:**

### **1. Scheme of experiments**

At Fig. 1 the experimental scheme is given

Fig. 1: Scheme of experiments:

- 1 – laser;
- 2 – control bottle with distilled water;
- 3 – double prism;
- 4,5 – bottles with distilled water, illuminated by laser beam through holograms 6.

Two type of holograms are used:

- transparent (№ 1 and № 4, one of these is control and reflexive);
- (№ 2 and № 3, one of these is control).

The holograms are produced by International Scientific Research Institute of Cosmic Anthropeocology. Two portions of water were exposed simultaneously for a given time and after that the water was investigated by the method of the water energy spectrum.

### **2. Experimental method and results**

The method of water energy spectrum is based on the simultaneously evaporation of water drops (from water put under a given influence and from control water) at a constant temperature, relative humidity and air flux. The drops are laid on a transparent,

hydrophobic folio and the wetting angle was measured during the time of evaporation. The water energy spectrum was calculated after, [2-4]. It is actually the distribution function  $f_E$  of the bond energy  $E$  between two water molecules. The differential energy spectrum was defined after the equation:

$$(E) = (\textit{probe}) - (\textit{control})$$

The differential spectra and control spectrum are given on Fig. 2 (for holograms 1 and 4, at expose time 45 min.) and on Fig. 3 (for expose time 270 min.)

Fig. 2. Differential spectra and and control spectrum. Expose time 45 min

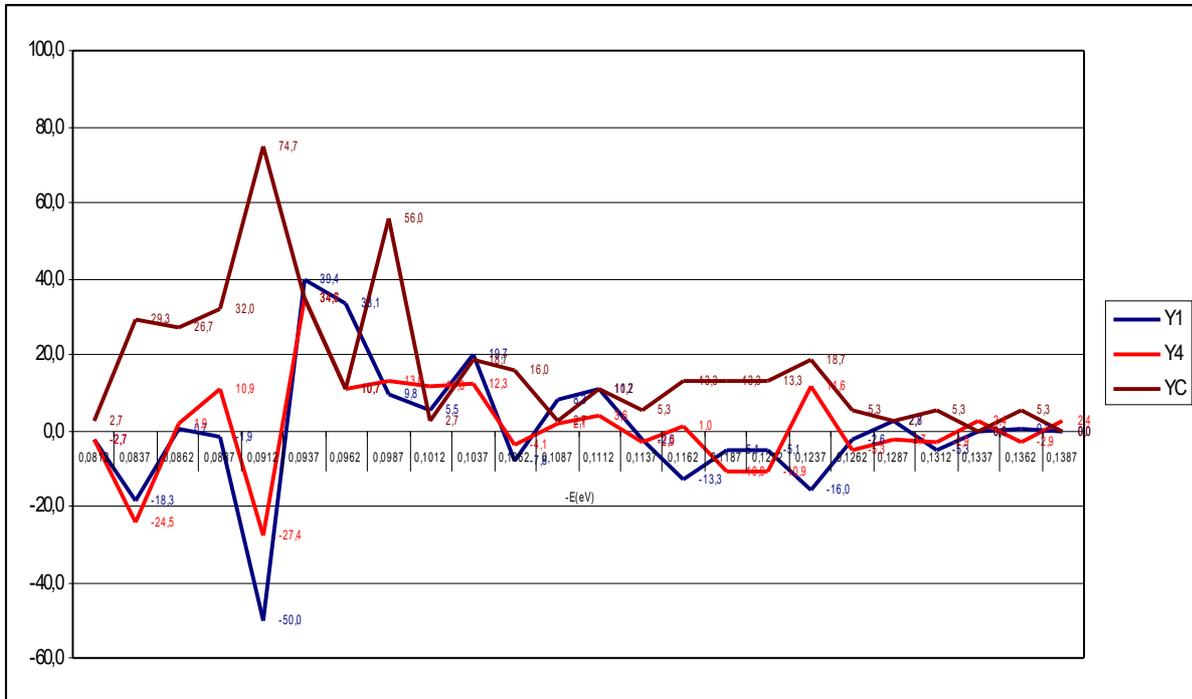
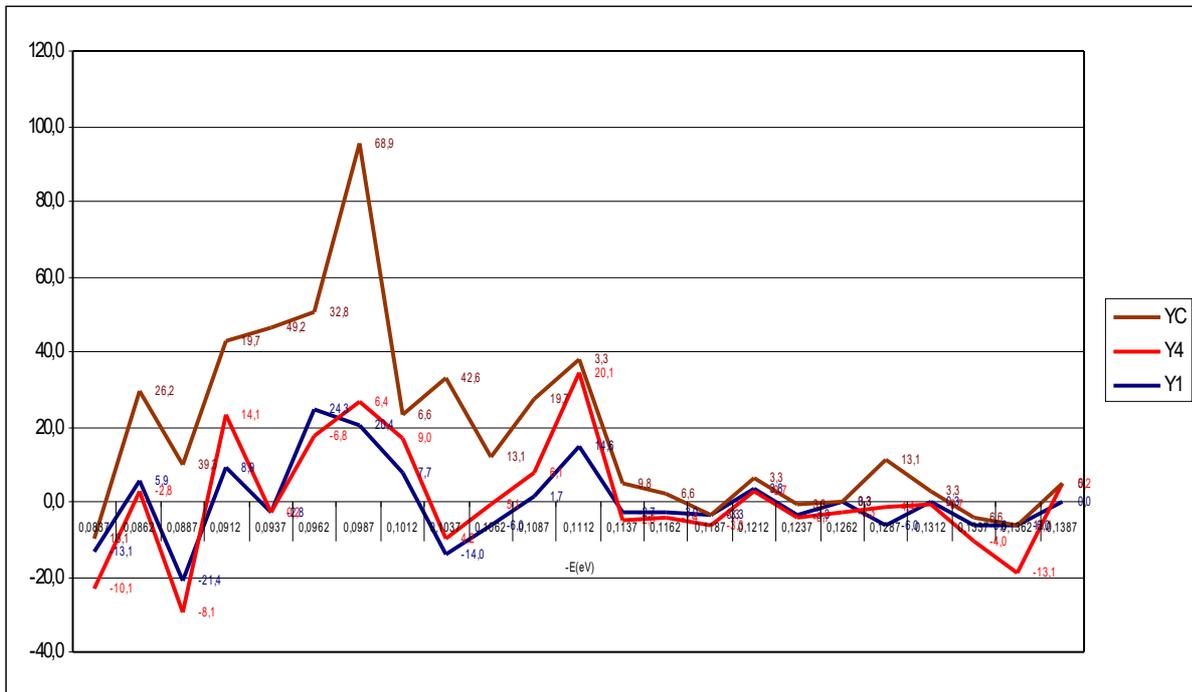


Fig. 3. Differential spectra and control spectrum . Expose time 270 min.



where,

In the case of reflexive holograms the results are shown on the Fig. 4 (for holograms 2 and 3, at exposition time 50 min.) and on Fig. 5 (for holograms 2 and 3 too and expose time 270 min.). The holograms are put during expose on the back wall of the bottles with distilled water.

Fig. 4. Differential spectra and and control spectrum for reflexive holograms № 2 and № 3. Expose time 50 min.

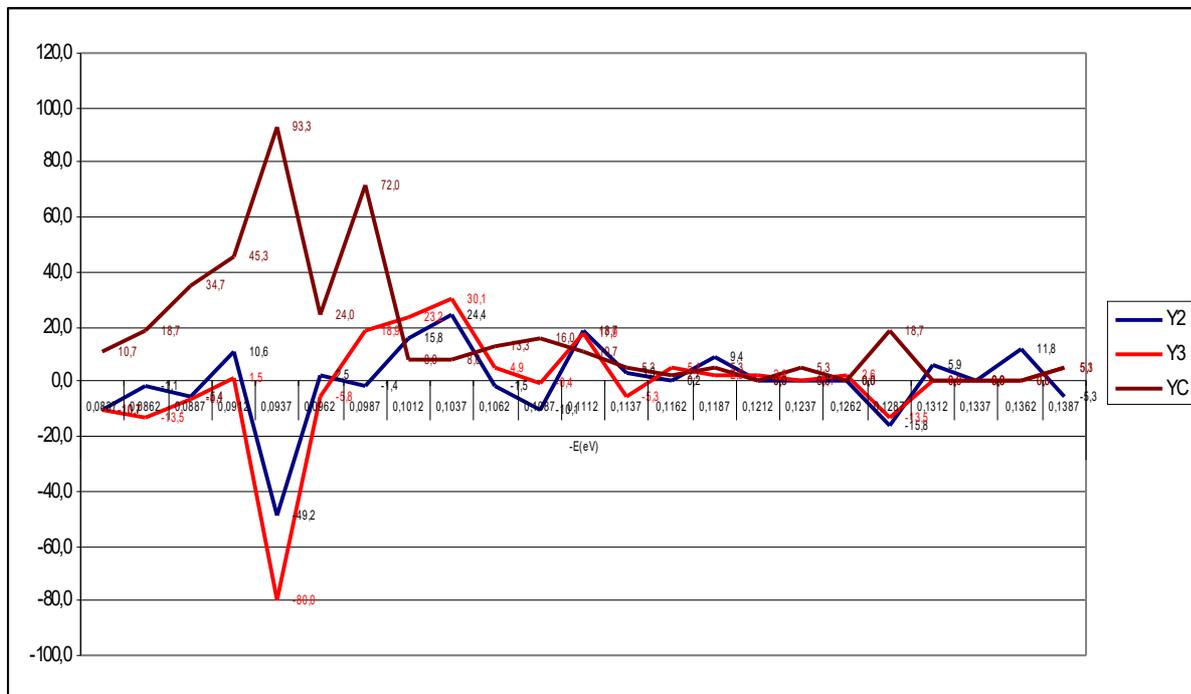
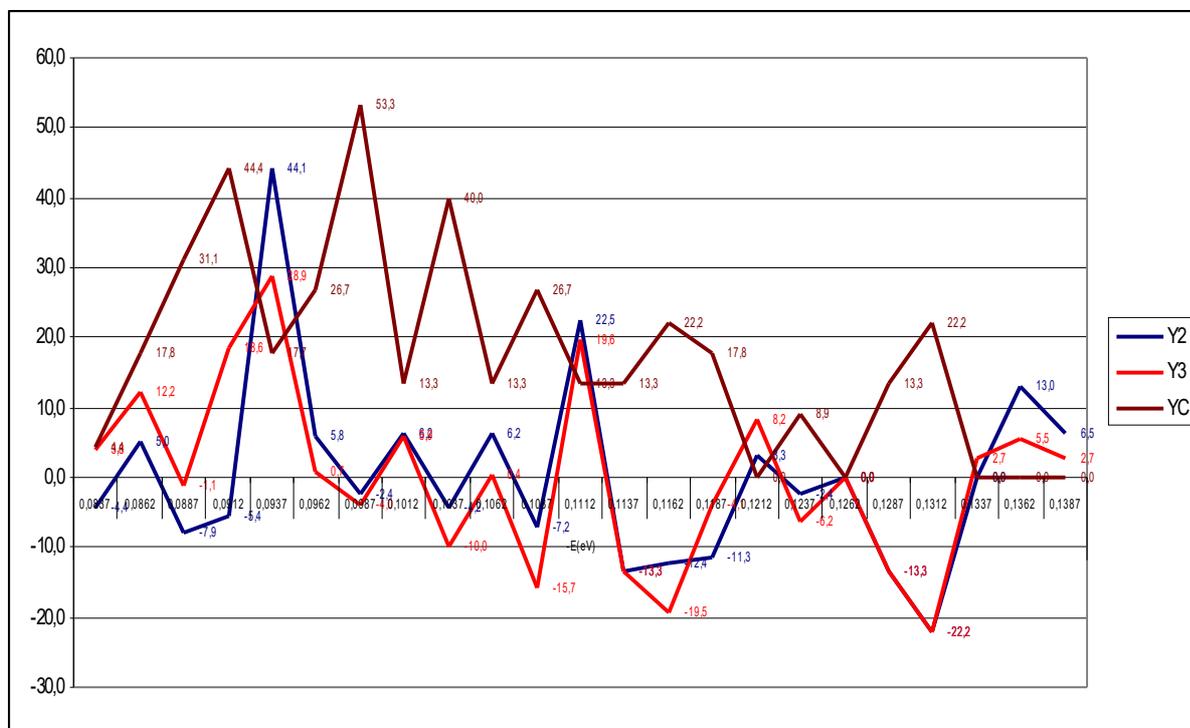


Fig. 5. Differential spectra and control spectrum for reflexive holograms № 2 and № 3. Expose time 270 min.



The average energy of bond between two water molecules  $\bar{E}$  was calculated from the energy spectrum of water. As the sign of bond energy is always negative, so about the difference in energies  $\Delta\bar{E} = \bar{E}(\text{probe}) - \bar{E}(\text{control})$  the following rule is valid:

If  $\Delta\bar{E} < 0$  bond energy amplifies due to the given influence;

If  $\Delta\bar{E} > 0$  bond energy decreases.

The coefficient of linear regression or linear correlation  $R(f_x, \Delta f)$  was calculated too. This coefficient express the capability of a given influence to compensate fluctuations in control spectrum under the action of environmental factors as atmospheric pressure change, earth magnetic field variations and electromagnetic noise due to the solar activity. A big meaning has the peak in the energy spectrum  $\Delta f^i$  at energy  $E = -0,1112 \text{ eV}$ , called activity peak. It appears by different treatments of water by magnetic fields, electrolysis

and turbulent movement which bring to increasing of the biological activity of the water. The change in the water activity is defined by the equation:

$$\Delta f'(E) = f'(\text{prope}) - f'(\text{control})$$

The values of  $\Delta \bar{E}$ ,  $R(f_x, \Delta f)$  and  $\Delta f'$  are represented for the transparent holograms. in the Table 1, and for reflexive holograms – in Table 2.

Table  
1:Transparent  
nt  
holograms

Hologram №	Expose time (min)	$\Delta E(10^{-3})eV$	$\Delta f'(eV^{-1})$	$R(f_x, \Delta f)$	P	$R_{14}(\Delta f_1, \Delta f_4)$
1(II)	45	+0,9	+11,2	-0,32	>0,05	+0,85
4()	45	+1,6	+3,6	-0,09	>0,1	
1	270	+0,9	+14,6	+0,14	>0,1	+0,43
4	270	+2,8	+20,1	-0,01	>0,1	

x – in direction of laser beam;

xx – in perpendicular direction

Table 1:  
Reflexive  
holograms

Hologram №	Expose time (min)	$\Delta \bar{E} (10^{-3})eV$	$\Delta f'(eV^{-1})$	$R(f_x, \Delta f)$	P	$R_{23}(\Delta f_2, \Delta f_3)$
2(II)	50	-2,3	+18,7	-0,59	<0,01	+0,86

3()	50	-3,4	+17,9	-0,56	<0,01	
2	270	+2,5	+22,5	-0,32	>0,05	+0,82
3	270	+4,3	+19,6	-0,12	>0,1	

### 3. Discussion

If it can see from Tables 1 and 2 in all cases the influence of both type of holograms brings to increasing of the peak of activity  $\Delta f^I$  and respectively to increasing of the biological activity of water. The effect is stronger for reflexive holograms. For the transparent one we received for short and long expose time decreasing of the average bond energy between water molecules. For the reflexive holograms at expose time 50 min. we have increasing of the average bond energy, but at 270 min. expose time we received decreasing of latter. For the transparent one we received for short and long expose times decreasing of the average bond energy.

The coefficient of linear correlation  $R(f_x, \Delta f)$  for all cases except for reflexive holograms at short expose time is not reliable. Very big reliability but have the coefficients of linear correlation  $R(\Delta f_1, \Delta f_4)$  and  $R(\Delta f_2, \Delta f_3)$  in spite of the fact that holograms 1 and 4 and respectively 2 and 3 are different. We suppose that one of the possible reasons is the coherence of the laser beam, which is divided by double prism in two beams – in direction of the initial beam and in perpendicular on.

In conclusion we can state that the method of water energy spectrum give very useful information about the influence of holographic fixed information on the water structure. (Antonov, Trifonov, Trofimov, 2015)

**Dr.O.Oseeva (Novosibirsk, Russia)** spoke about the relevance of the topic: in the scientific and medical community continues to shape the understanding that human health depends on environmental parameters: atmospheric pressure, geomagnetic conditions, the effects of solar flares and solar radiation ( "solar wind" ). Cardiovascular system is most sensitive to these factors. The mortality from cardiovascular diseases ranks first in the total mortality, and the study of the influence of Helio-geophysical factors on this

system is very relevant.

Among the methods to assess such effects was highlighted a few: The speed of the pulse wave and endothelial function with hypoxic test were made on the device "Tonocard" (Moscow)

- Cardiointervallography with calculation of the tension of the sympathetic and parasympathetic systems, expressed in indexes Baevsky.
- Original author's interpretation of cardiointervallogram as a sequence of notes, reflecting the musical frequency score, a special "music of the heart" , recorded on diagnostic and treatment complex "Veda-pulse" ("Biokvant,Ltd, Novosibirsk, Russia). In «music of the heart» was analyzed, the ratio of consonant and dissonant notes. In a series of tests on volunteers was analyzed the influence of drinking water processed image, and glasses with embedded hologram ( patent of the Russian Federation, № 2239860, holders ISRICA and Holoart, Ltd), modification of ISRICA named after academician V.P. Kaznacheev together with Ltd "E max"), having helioprotectors properties on the performance of the cardiovascular and the autonomic nervous systems, as well as the dependence of light-water holographic effects of Helio-physical factors.

As the conclusion O.Oseeva assert:

1.Heliophysical factors have a significant impact on the work of the most important regulatory cardiovascular and autonomic nervous systems. In tests with the holographic processed water effect on endothelial function was particularly pronounced and significant

2. The speed of the pulse wave, endothelial function and cardio-intervalography are sensitive indicators of Helio-biofunctional conjugation.
3. Promising but as yet little-studied, is the integral method of frequency-resonance estimates of spectral-wave characteristics of the Sun and the human Heart, the method of analysis of so-called "music of the heart", when changing light-fotogalerijas test actions. (Oseeva, 2015)

**D.Serdyukov, post graduate of Novosibirsk National Research St.University (Novosibirsk, Russia)** spoke about the phenomenon of change in the detectable DNA concentration in water solution under light-holographic influence. This investigation was realized by the idea . A.Trofimov MD, at the base of ISRICA, at the spring 2015 ICRAC (Individual Chrono-Resonant Analogous Carrier; patent RF № 2239860) is a new bioinformational instrument giving potentially a great possibility for increase of a living status as well as for decrease of an aging rate. This reflective hologram contains the physiologically important information about the solar wave-corpuscular streams intensity during 22 years in «the reverse evolvent» (from 2012 to 1990 years). Additionally, the hologram contains the heroprotective information that had been translated from some substances of plant, animal and mineral origin.

In the present study the influence of the light reflected from ICRAC on a water solution of DNA (deoxyribonucleic acid) to value the possible physical (lightholographic) impact on properties of its components (namely, DNA and water molecules), was investigated. Moreover, this 90 minutes lightholographic exposition was done under the specific conditions, namely, in so-called the horizontal Kozyrev's mirrors («Device for correction a human biophysics field», patent RF № 2141357). For the experiments, a human genomic DNA was previously extracted from leucocytes of a healthy donor. To value roughly the physical impact on the water solutions of DNA, a detection of the DNA concentration by QPCR (qualitative polymerase chain reaction) had been chosen. Q-PCR was done in less than 60 minutes after the lightholographic exposition, and this method implied the qualitative analysis of repetitive DNA elements (namely,  $\alpha$  SAT and LINE1) which are widespread in a human genome. After the expositions and before the Q-PCR, the plastic tubes with solutions were kept in an aluminum foil. The light-holographic exposition with the subsequent QPCR analysis were repeated three times; in each repeat, the 8–10 tubes, containing the experimental samples, were used. Additionally, in the

research, there was twice repeated experiment under similar conditions, but with use of the solutions of the specific DNA, that was previously obtained by reverse transcription of a human small non-coding RNA (ribonucleic acid), namely, «miR-16»; obtained in such a way the specific DNA sequence is present in living organisms in very small amount or quite absence. Besides, in both cases the use of the same amount of control samples, undergoing an usual daylight, was stipulated by the experiment design.

It was shown, that under the influence of ICRAC, the detectable DNA concentration in the water solution was increased on an average 1,7-fold and 3,0-fold ( $p$ -value < 0,05) for the sequences  $\alpha$ -SAT and LINE1, respectively. In fact, this DNA concentration changes were precisely detectable, because from the experiments, it was impossible to deduce there were either real changes of the amount of DNA or were specific changes of water clusters due the external modulated electromagnetic fields; third possible mechanism could be related to the changes of DNA conformation resulting in the increase of the efficiency of QPCR on the first stages of the DNA amplification. The observed phenomenon is in agreement with the experimental data that was published by famous scientist Luc Montagnier. L. Montagnier et. al.(2011) had detected DNA, using PCR method, in the pure water after the specific electromagnetic field influences; they also had tried to interpret the phenomenon in the framework of quantum field theory ].

Interestingly, significant DNA concentrations changes in the case of the solutions of the specific DNA were not observed. It confirms that the effect of DNA concentration increase is caused by formation of real (or water) DNAcopies by the external influence (i.e., from ICRAC), but not by the internal influence (i.e., from DNA molecules presented in the solution). Anyhow, the additional experimental work is needed to understand the precise mechanisms of biological effects of ICRAC and similar bioinformational instruments based on holographic technologies.(Serdyukov, 2015)

**Professor A.Pavlenko (Kiev, Ukraine)** spoke about remote effects of mobile phone base stations antennas, wind on a living thorough a system of geological faults possible ways to neutralize biopathogenic radiation

Techno pathogenic effect - a set of factors and processes that have any kind of negative effect or impact on living organisms resulting from scientific and technological progress of mankind.

Listing all techno pathogenic factors (too many of them and they are well known) is not the purpose of this article. Pay attention to one of the factors that has received the most

widespread and continues its "victorious" march. This factor in the development of mobile communication, as mobile phone is an indispensable attribute of modern humans, with few exceptions.

In recent years, the electromagnetic spectrum in which we live, has grown considerably due to the rapid proliferation of networks of basic mobile communication antennas.

In our work we focus on the part of our accumulated material on the subject, illustrate a further impact of base stations of mobile phones on a living through the geodynamic zones and geopathogenic zones of the Earth.

The risk for human and animal health are natural geopathogenic zones (GPZ) related to the geodynamic structure of the crust and its essential elements - fault zones.

Geopathogenic zone - are sections of the earth's surface in open areas, and within buildings, long stay in them makes a biological cause discomfort and ill health and even death of people and animals.

It was determined by studies conducted in Ukraine and France, that the installation of masts base stations and wind turbines at the intersection of the fault zones, which is a natural migration of groundwater, or geopathogenic zone, causes the appearance of artificial radiation of these zones and the spread of radiation occurs along areas faults or discontinuities along the axial in the soil.

There are additional factors that affect the health of their people. This WiFi, cordless phones and other domestic sources of electromagnetic radiation and the torsion.

The same impact on the environment and provide wind turbines.

Constant exposure to natural and artificial torsion fields can cause changes in behavior, the state of aggression or depression (sometimes to the point of suicide), constant fatigue, sleep problems, partial loss of memory, problems with concentration, stress.

In order to eliminate the negative impact on the living of electronic equipment a number of devices has been developed.

The device Vernada- Geo - neutralizes the effect of radiation Wi-Fi router, router, wireless networks, as well as geopathogenic zones in flats, offices and other premises, thus protecting humans from harmful effects of irradiation. The device must be switched on the electricity network. The device uses a "phase" wire network.

The device carries out an inversion of the left torsion field to the right torsion field that leads to the formation of a new right torsion field, a reaction to this event will be a

substantial reduction in the level of radiation Wi-Fi and geopathic zones in the territory, which is connected to said phase wire .

Vernada-Geo device is also used on farms to protect the animals from the negative effects of torsion fields.

It becomes a real creation of technical systems in which electromagnetic fields and torsion component of its structural organization will integrate harmoniously with the natural systems.

It is necessary to pay much attention to theoretical issues of influence of torsion fields on the human body and alive, and biomedical research, one of the main areas of the study of torsion fields must be brought to a new level.(Pavlenko, 2015)

**Alexander Trofimov, Doctor of medicine, Academician of ABI (USA), Director and chief of Scientific board of International Scientific - Research Institute of Cosmoplanetary Anthropeocology , named after Academician V.P. Kaznacheev, and Organizer of Novosibirsk's Pre Conference Workshop of 5-th International Conference of OMICS GROUP «Earth Science and Climate Change» (Bangkok, Tailand, July 25-27, 2016)- spoke about the actuality of creation of GLOBAL GEOECOLOGICAL SYSTEM OF HUMAN LIFE SUPPORT IN THE EPOCH OF COSMOPLANETARY AND CLIMATIC CHANGES**

He spoke, that the ongoing geomagnetic deprivation (weakening of the Earth's magnetic field induction) increases the risk of deep penetration into the atmosphere and the biosphere secondary solar-galactic corpuscular streams, that can cause genetic mutations with serious evolutionary consequences (R.Shaar et al., 2011, N.Kuznetsova, V.Kuznetsov, 2012).

There is need for the urgent development, testing and implementation of a global system of geoecological life-support of humanity as a multi-billion "crew of a spaceship ", entering the zone of cosmoplanetary danger for human health and life. The most important elements of the Global life-support system should be:

1. Creating a global network of Centers of geoecological security (CGS) on all continents.
2. Satellite monitoring of intensity of solar-galactic corpuscular streams with presenting the data in CGE.
3. Providing of CGS with modernized computer programs such as "Helios" (Russian Federation) and the tests to determine the individual-population heliosensitivity of population of different countries.

4. Production of drinking helioprotective water by technology, developed by scientists of ISRICA (patent № 2342149) on all continents.
5. Production of different food products (vegetables, fruits, honey, milk, etc.) with helioprotective properties on the basis of helioprotective water.
6. Creating a system of geoecological education (training personnel) and enlightenment of population.
7. Organization on the basis of University and other scientific centers laboratories, evaluating the effectiveness of the use of helioprotective drinking water and other food products by population
8. Periodic reporting to international ecological organizations and joint reports at conferences of OMICS GROUP.

Humanity, using “aqua diving suits”, that is, the means of geoecological life-support will be able more safely for evolution and existence continue its “flow” in the epoch of such a considerable cosmoplanetary changes.

32 participants from 4 countries and 8 towns of Russia of Novosibirsk’s Scientific Forum presented oral and poster reports spoke about possible evolutionary results of cosmoplanetary changes ( A.Kutmin, Tomsk,Russia, prof. T. Soboleva, Voronezh, Russia) and the necessity of creation of new type of scientific Institutes, so as Institute of Heliogeoecology (I,Pavlov, Sofia, Bulgaria). All unanimity accepted the Resolution (look text) as the Appeal to the scientists, doctors and all people of our World.

The discussion will be continue at the 5-th International Conference «Earth Science and Climate change» Tailand at the July 2016

**Ph.D T.Kuznetsova(Novosibirsk, Russia)** spoke about The strengthening of solar corpuscular flux reaching the biosphere when despite the weakening of the Earth magnitosphere's buffer properties is one of the most pressing issues in modern science. The main goal of this research is to study the mechanics of slowing down the aging process and decreasing the human body's functional dependence on malicious heliophysical factors by applying modern light- and water-holographic protection.Our attention was especially focused on various applications of water as a universal helioprotective tool.In July 2014 we tested the Stop Time Project in Golden Sands, Bulgaria, with the help of G. Veselinova and her colleagues from Varna, Bulgaria. A technological therapeutic complex, Stop Time was developed by ISRICA to be used as a means to slow down the aging process without any (intrusive) medication. Over a course

of 7 days the 36 participants of the program tested several helioprotective devices: holographic drinking water Altin Suu-2, made in Gorno-Altaysk, Russia; balneotherapy at swimming pools filled with heliographic water; helioprotective eyewear; milk from animals that had been given helioprotective water. We used the modern, highly accurate diagnostic tools, like Tonocard to determine the speed with which the pulse wave propagates in the cardiovascular system as well as assess the endothelial function of the said system. We also assessed the hand-eye reactions dynamics and flicker light critical fusion frequency with the use of NS-Psychotest. We learnt that 70-80% of the volunteers showed signs of anti-aging tendencies: the decrease of pulse wave velocity and increase in neurophysiological activity, a significant inversion of correlation between these parameters and solar corpuscular flux (based on data presented by E. V. Sevostyanova, MD, in 2015).

In May – June 2015, 2 new types of reflective holograms, made in association with Emah company, were tested in Apsara Wellness Center (Novosibirsk, Russia). These holograms contain helioprotective information that was structured in a new, inventive way. The patent to the invention belongs to ISRICA and Holoart, LLC.

After going through background checks, 12 volunteers were instructed to put on the helioprotective eyewear, first with hologram 2, then with hologram 1, both created according to ISRICA's specifications. To assess the changes that occurred in the body while the holographic information was in contact with the subject's retina, we used VedaPulse device made by Biokvant, LLC in Novosibirsk, Russia. The recording of data was done 3 times: during the background check and after the applications of holograms 1 and 2. The device was used to register the heart action potential in order to later analyze the rhythm variability dynamics. The results of the aforementioned analysis allowed us to assess the degree of damage to human body, the level of stress, capacity for adaptation, the condition of regulation mechanisms and the status of heart rate control centralization– all after being exposed to the holographic devices. By making a note of each participant's "individual minute" (participants were asked to stop the clock when they thought a minute had passed without counting seconds or looking at the clock) we assessed the subjective time dynamic. The initial analysis indicated that changes occurred in every volunteer after they were exposed to holograms 1 and 2 for 5 minutes each. These changes were registered in specter overall power (SOP) (adaptation reserve energy), stress index (SI) (degree of centralization of heart rate control) and a number of others. It's safe to conclude that the information modulated by the operator in Kozyrev's space (after being projected on to retina via a hologram) can affect the "field homeostasis". It produces a certain reaction in human body, one that manifests itself in an increase of the body's capability for adaptation.

As the conclusion is assert:

1. Test has proven the effectiveness of light and water holographic procedures. The helio-geroprotective effect of 2 types of holograms is significant and can be traced by measuring several parameters (pulse wave velocity and rate of neurophysiological activity).
2. The unique StopTime system has proved its effectiveness; it's ready to be used everywhere.
3. Functional body systems can anticipate the cosmophysical events. Even a brief distant contact with the information formed by the operator in Kozyrev's space, applied to retina via a hologram, can be used as a controlling substance. The body can anticipate the changes and adjust its adaptation capabilities, becoming closer to cosmophilic standards of the Universe; standards that are essential for geoeological safety of humans (Kuznetsova, 2015).

**Professor S.Parshina, Saratov, Russia).** In 145 patients with unstable angina (UA) there was analyzed an efficiency of a drug therapy at different types of heliogeophysical activity (HA) during the 23th solar cycle. 83 patients were examined at the period of a lower HA (Kp-index  $16,19 \pm 0,18$ ), and 63 patients – at the period of a higher HA (Kp-index  $17,25 \pm 0,21$ ,  $p < 0,05$ ). Baseline severity of patients' condition with UA at the moment of hospitalization at the studied periods did not differ, but the effectiveness of the therapy depended on the period of HA. At the period of a higher HA antianginal effect was stronger than at the lower period of HA ( $2,27 \pm 0,16$  points and  $1,75 \pm 0,12$  points,  $p < 0,05$ ), and the need in nitroglycerin on the background of a drug therapy disappeared for 5-7 days quicker than at the period of a lower HA.

Maximal hypotensive effect at a higher HA was achieved quicker – on the 3<sup>rd</sup> day of the treatment, and at a lower HA – only up to hospital discharge ( $p < 0,05$ ). Blood viscosity did not normalize in both of the studied periods, but in small vessels there was noted a decrease of a BV ( $p < 0,05$ ). So, at a higher HA the effectiveness of a drug therapy in patients with UA is higher than at the period of a lower HA. (Parshina et al., 2015)

**Le colonie a settore differenziato, in correlazione significativa sia negativamente con l'attività solare che positivamente col flusso neutronico dei raggi cosmici, possono inoltre essere segno di un meccanismo di avvenuta autoriparazione cellulare ?( Dalla relazione fatta a Roma in " Coherence 2014 " Conference, da Faraone Piero A.R.,Vice Pres.CIFA ) .**

### Premessa

- **Ogni germe crescendo su un terreno colturale solido, si assembla cogli altri in senso centrifugo dando una forma rotondeggiante detta colonia , costituita da innumerevoli microbi. A volte una colonia mostra uno o più settori differenziati dal resto della sua compagine ( o per il colore o per la trasparenza o per l'aspetto in generale ). Tale colonia è stata indicata con l'acronimo CSD (fig.1) . Le CSD sono indicate come percentuale della carica microbica totale rilevata sul terreno di crescita, escludendo i miceti e indipendentemente dal numero dei settori**
- **Witkin E.M (2) 1955** poi altri AA. **[Faraone e Coll. (14) 2002]** pensarono che il settore differenziato fosse frutto di una mutazione . Oggi l'A., ammette che si possa trattare pure di una auto- riparazione cellulare dove i settori ne sarebbero i *correlati visibili* .

### Esposizione (\*)

**Nel Lab.Ig.Prof.d.Prov.di Milano,alla fine degli anni '60, l'A. notava la presenza di CSD in casi di ridotta efficacia delle lampade germicide a raggi ultravioletti. Tali CSD attirarono ancor di più la sua curiosità avendole notate pure in colture su terreni solidi di germi sedimentati dall'aria esterna e la loro frequenza risultò non essere affatto caotica ma periodicamente variabile [Faraone (1), Nv '69/ Mz '71 ] .**

**Witkin E.M (2) 1951** studiando l'effetto mutageno dei raggi UV su colture microbiche, aveva rilevato che nelle CSD i germi dei settori differenziati erano incapaci di attaccare il lattosio mentre quelli della restante compagine ne erano capaci e come **in altri studiosi** [ vedi [http://www.cifafondation.org/English/Main\\_page\\_EN.html](http://www.cifafondation.org/English/Main_page_EN.html) , **Cifa.News 31.Mg-Ag..2002,(14)** ] prelevava il dubbio che le CSD potessero essere segno di una mutazione. Sull'esempio di quanto già effettuato in batteri isolati dall'interno d'una navetta spaziale **[Fox G. e Wilson R., (3) 2003]**, i dubbi oggi si possono superare con le analisi del DNA dei batteri dei settori e della restante compagine di ogni CSD. L'A. decise d'iniziare comunque una sistematica indagine sulle variazioni della frequenza delle CSD a partire dal 1970, senza darsi un preciso limite alla durata del proprio impegno. L'indagine fu eseguita in 3 fasi successivamente :

La I fase nella quale si verificarono variazioni di frequenza delle CSD in germi dell'aria esterna (**fig 2**) per 12 anni e mezzo ( Fb. 1970 /Lug. 1982 ). Le Sedi operative furono Milano nei primi 6 anni e dopo Roma successivamente .

Nella II fase, tutta realizzata a Roma , si verificarono dette variazioni su ceppi puri di S.Aureus, (**fig 3**) per 7 anni (Mg 1984/Mz 1991 )**[Faraone (4-8)]**.

La III fase venne fatta nel contempo su ceppi di S.Aureus sia nei Lab. del Gr. Sasso ( in quota e in galleria ) che nel Lab. di Roma ( cioè a livello del mare ) per un periodo di tempo di 11 gg, 1-II Nov. 1990 [ **Faraone (9) 1991** ]. Nel complesso si ebbero 20 anni d' indagine su un totale di oltre 4 milioni di colonie.

Tra la I e la II fase ci fu inoltre l' interruzione di 1 anno e 8 mesi ( Ag 1982 /Ap 1984 ) nella quale si elaborarono i dati della I fase e si gettarono le basi per la seconda .

Gli approfondimenti e / o le collaborazioni con altri ricercatori hanno aggiunto a tuttora (2014), altri 20 anni circa d'impegnativo lavoro **[Faraone 10-12, 14-24]** . L'impegno totale dell' indagine è quindi a tuttora di oltre 40 anni .

La ricerca fu presentata dall'A. in diversi convegni di vari Paesi stranieri come : **Parigi, 1984 ; Amsterdam, 1989 ; Vienna, 1990 ; Bruxelles, 1992 ; Pushchino (Mosca) 1993 ; Lubiana\*\*, 1996 ; Crimea\*\* 2003, 2007, 2009, 2011, 2013; e indirettamente negli U.S.A grazie ai collaboratori Wedler P. [ (6) 1987 ], (Presidente del CIFA nel 1988-1990), e Halberg F. [(14) 2002 ]che intervenne anche a **Brno (1999)**( Cifa News n°30 ed.completa 2002, reperibile a richiesta c/o [faraone.piero@alice.tin.it](mailto:faraone.piero@alice.tin.it) ) ed anche a **Tokio [(16) 2002]** .**

(\*) Per il § Materiale e Metodi si rimanda al C.News 31 in [www.cifafoundation.org](http://www.cifafoundation.org) ; (\*\*) presentati in cartaceo e resi noti sui *Congress Proceedings* **Risultati**

Dalla (fig.4A) spiccano evidenti i due valori minimi delle CSD riscontrati all'inizio e alla fine d'un **lungo periodo <Secolar Variation >** quale quello dal 1971 al 1982 pari a un intero Ciclo Undecennale del Sole ; nella (fig.4B) a metà ciclo spicca per gli S.Aureus, il valore massimo di frequenza riscontrato per le CSD (e cioè 11 anni dopo c. il valore massimo avuto per i germi dell'aria nel ciclo solare precedente e cioè nel luglio 1976).

Gli S.Aureus nella II fase dettero curve di frequenza delle CSD in tutto concordi con quelle dei germi dell'aria esterna della I fase e ciò pur sussistendo provenienza e condizioni ambientali molto diverse fra i germi qui considerati.

I germi dell'aria infatti erano miscele eterogenee variabili di micro organismi che prima di finire sulle piastre restavano in balia di correnti che portandoli a varie altitudini, li esponevano più o meno intensamente e più o meno a lungo, a influenze esterne ( *ivi comprese quelle mutagene* ). Gli S.Aureus invece avevano una flora batterica omogenea utilizzata in ambiente confinato( *laboratorio* ) che proveniva da ceppi selezionati , tenuti in condizioni standard ( a +5°C ) nella loro conservazione.

Alla fine per entrambe le fasi si son rilevati risultati del tutto simili . Pure se si riscontrò che nel complesso le CSD erano più numerose nei germi dell'aria che negli stafilococchi conservati in laboratorio. Il che potrebbe dipendere dalle alte quote probabilmente toccate dai germi sospesi nell'aria che la letteratura considera riscontrabili pure nelle nuvole e in casi limite perfino nella stratosfera [Griffin D.W., Kellogg C.A.,e Coll. (25) 2003] In questa II fase si evidenziò pure che i fattori che influenzavano la formazione delle CSD, agivano nonostante le barriere costanti interposte fra ambiente e colture ( murature, contenitori in genere, etc.) che per gli S.Aureus parevano ininfluenti ai fini della frequenza in più o in meno delle CSD .

Solo da una semplice osservazione dei grafici ottenuti senza particolari ingegnosità statistiche, sono poi spiccate subito ben chiare le **correlazioni** fra le curve dei **dati biologici** e quelle dei **dati fisici** suddetti, da indurre l'A. a ipotizzarle come significative : e cioè **positive** con i R.C.( Flusso Neutronico) e **negative** coll'Att. Solare (Wolf's Number), (fig.5) . Cosa poi confermata statisticamente col successivo intervento dei collaboratori qui ricordati.Nella I e nella II fase, rispettivamente, i germi dell'aria e gli S. Aureus mostrarono per tutti gli anni d'indagine, mese per mese, curve di frequenza con

valori CSD via via più elevati in giugno , in agosto e in specie a novembre. Si notarono pure 2 valori minimi: in marzo e meno accentuato in settembre (fig.6).

Nella terza fase, si attuò un'indagine contemporaneamente a Roma a livello del mare , e al monte Gran Sasso, a 1000 metri di quota nonché in galleria sotto 1400 m. di roccia . Si utilizzarono ceppi di S.Aureus e si esaminarono oltre 50.000 colonie, in 11 giorni . In rapporto alle colonie esaminate, i dati CSD furono maggiori in altitudine, medi a livello del mare e più bassi in galleria ; rispettivamente : **11%** di 17191 ; **9%** di 16776 ; e **4%** di 16718 colonie **.Faraone(9)19919** dati che furono l'unica cosa prevista che restò confermata .

Tutti i dati giornalieri CSD delle prime due fasi sono stati posti in 43 pagine di tabelle visionabili : o scrivendo al loro autore [faraone.piero@alice.it](mailto:faraone.piero@alice.it) . ovvero cliccando il sito [CSDDailyData-Tables](http://www.cifafoundation.org/fardata/air_and_laboratory_data.html) della sede del CIFA in Lugano o il sito indicato dalla drs. Cornelissen G. ( stretta coll. del compianto prof. Halberg Franz, Cronobiology Founder, entrambi della Minneapolis Univers., Minnesota, USA ), [http://www.cifafoundation.org/fardata/air\\_and\\_laboratory\\_data.html](http://www.cifafoundation.org/fardata/air_and_laboratory_data.html)

Due tabelle sono poi riportate in coda alle figure indicate nel testo la tab. del 1971 e quella del 1976, opportuni esempi delle quarantuno restanti.

### Approfondimento dei risultati e conclusione

L'A. volle approfondire le sue ipotesi con il contributo di esperti della statistica . Così come detto prima, ne ricavò anche la conferma della significatività delle correlazioni dianzi da lui ipotizzate . Si realizzò tale contributo comune grazie ai seguenti studiosi :

Il Belga **DeMeyer.M.(5)1984**, Osserv.Astronom.Liegi . L'Americano **Halberg.F...e.coll. (14, 16) 2002.** Ricercatore Dirig., Univ.Minneapolis (USA), Crono-Biology-Founder . Il Russo **Konradov.T.A** Inst. of Biochemical Physics, Russian Academy of Science, Moscow e l'Ucraino Dirett. Osservat. Astrofis.di Crimea, Scient.Research.Inst. **Vladimirsky B.M.e coll.(19) 2005** . L'Ungherese **Ormenyi.J. (15) 2000** Bio-Meteorol.Researcher, Labor.Electro-Bio-Meteorology-Budapest. Il fisico.italiano, Univ.La.Sapienza, Roma, **Villoresi e coll. (12)1996.**

Tali AA., sul lungo periodo (ciclo solare), confermarono dunque le correlazioni che l'A. aveva ipotizzato, considerandole tutte significative.

Sul breve periodo il prof. Halberg evidenziò durante una Tempesta Magnetica rilevata ( indici Kp e Dst ), l' aumento temporaneo delle CSD da 0 a 9 giorni a decorrere dal picco, che via via aveva toccato . Il dr. **Ormenyi(15)2000** evidenziò una correlazione significativa negativa fra la frequenza delle CSD e le onde Elettro-magnetiche ELF, cosa sottolineata anche da altri coll. **Konradov T.A., Vladimirsky B.M. e coll. (19).2005** . Altri AA in convegni o in loro pubblicazioni hanno contribuito segnalando le ricerche effettuate dall'A sulle CSD.: a Parigi la Belga drs. **Capel Boute C, (5)1984** dell'Univesità di Bruxelles, negli USA il Tedesco dr. **Wedler P.E. (6)1987** dell'Istituto Univ. Meteor. Di Berlino, a Kiev gli Ucraini prof. **V.Martyntiuk, e drs. Gromosova E., dell' Univ.di Kiev (23)2012** e in Crimea il prof. **Vladimirsky B.M. (Crimea) .(13) 2006** in un libro da lui pubblicato a Mosca sull'attività solare, p. 100 .

In conclusione l'A., conoscendo che l'AS e la Radiaz.Cosmica avvicendano la loro influenza prevalendo periodicamente una su quella dell'altra, esse non potevano non determinare una diversa entità di effetto sui vari substrati nella nostra biosfera. Se prevaleva cioè l'AS, quella della RC restava schermata [ **Van Allen A.(26) 1976** ] ) e quindi riduceva la sua influenza ; se invece l'AS calava, la RC non restando schermata, risultava più attiva con la sua influenza e quindi sulle CSD . L'energia più influente quindi alla quale corrispondono i dati CSD più elevati è risultata propria della Radiaz.Cosmica ( flusso neutronico ). Questo è emerso dai dati raccolti . E' giusto ritenere quindi che l' AS e la RC sono i fattori dominanti nel condizionare sia direttamente che indirettamente ( **vv. Onde ELF** ), le variazioni di freq. delle CSD . Il "motore" però che condiziona l'alternanza delle citate influenze, resta sempre l'AS .

### Epilogo

All'A. è restato il rammarico di non avere potuto protrarre le ricerche al Gr.Sasso, dovendo rientrare a Milano. Tali indagini meriterebbero d' esser fatte molto più a lungo, per un periodo idoneo cioè a rivelare una concordanza significativa fra le variazioni dei dati delle Energie Esterne qui considerate e le fluttuazioni dei dati CSD nel tempo, contemporaneamente a livello del mare, in altitudine e in profondità nelle gallerie. Se una correlazione del genere mancasse, le cause influenti sulla frequenza delle CSD nelle viscere del Gr.Sasso, con buona ragione, andrebbero ricercate altrove, in energie naturali ( ad es. dal sottosuolo) o in energie artificiali localmente disperse(.ad es.: le onde el. Magnetiche di bassa frequenza.) .

### APPENDICE

Sulla natura e il significato dei settori differenziati delle colonie batteriche . Nuove ipotesi.

In un suo recente articolo, il **Battiston (28)2013** dell'Univ di Trento, scrive , “ *Complessi ma efficienti meccanismi, codificati nel DNA, permettono alle cellule di correggere un danno su una delle eliche del DNA usando un' informazione complementare presente nell'altra elica . Queste sono le autoriparazioni delle cellule.....* e aggiunge .....è pensabile che una particella ionizzante attraversando la cellula rilasci energia creando danni che il sistema di riparazione cellulare si affretta a riparare : spia dei lavori in corso è la produzione della proteina XRCC1 che si può con opportune tecniche. .... e conclude.....l'evoluzione s'è sviluppata in un ambiente caratterizzato dalla presenza di un livello pressoché costante di radiazione ionizzante : ..... quindi .....se le cellule viventi non avessero imparato ad auto-ripararsi, prima o poi il loro DNA verrebbe colpito e danneggiato impedendo la loro corretta riproduzione...

Avendo letto quanto sopra descritto e volendo ipotizzare la facoltà di **autoriparazione cellulare pure per i batteri** , si potrebbe arguire che quando questi fossero investiti da energie ionizzanti che li avessero danneggiati, potremmo avere pure per loro un danno al DNA e la formazione di settori differenziati che come correlati visibili potrebbero essere l'evidente testimonianza di un' avvenuta autoriparazione .

L'importante fenomeno delle mutazioni, verificato coi dati ricavati dal DNA dei batteri, si è considerato essere più frequente nello spazio, al punto di potere addirittura pregiudicare le stesse missioni **[(3)2003, (30)2006, (31)2007]** ( *creando infezioni e pure antibiotico resistenze magari in presenza, nel contempo , di un calo delle capacità immunitarie negli astronauti* ) . Fatti spiccati in lunghi periodi di viaggio o di protratta permanenza come accade appunto nelle Stazioni Spaziali .

Riferendosi alle permanenze prolungate dell'uomo nelle stazioni spaziali , Cameron M.Smith, Univ.di.Portland. **[(28, 29) 2013]** , riferisce.:

< *Le radiazioni provocano mutazioni ed è improbabile che qualunque tipo di colonia spaziale riesca a dare una protezione dalle radiazioni pari a quella offerta dall'atmosfera e dal campo magnetico della terra . – e aggiunge - La sola cosa che possiamo dire con una certa sicurezza è che vi sarà una selezione per una maggiore resistenza al danno delle radiazioni. Alcune persone hanno meccanismi di riparazione del DNA più efficaci e più attivi di altri, e avranno maggiori probabilità di passare i propri geni a generazioni successive-* . e conclude... .... *Ma i geni vantaggiosi possono diffondersi anche senza correlati visibili* > .

Quanto prima riferito per le cellule umane non è improbabile dunque che possa essere ipotizzabile anche per le cellule batteriche che selezionandosi a favore delle forme più resistenti potrebbero far mostra di un **correlato visibile come il Settore Differenziato**

Quanto detto per le stazioni spaziali può riferirsi, nelle dovute proporzioni, anche a livello del suolo terrestre, e per ora tale problema l'umanità l'ha man mano superato attraverso una sua selezione nel tempo che ha favorito gli esseri più capaci d'adattarsi biologicamente all'influenza delle radiazioni ionizzanti prima citate ma fino a che punto, ciò è accaduto senza averne alcun danno? A tal proposito si rammenti quanto appurò **Witkin nel 1951** e cioè che i germi dei settori differenziati in una CSD non erano più capaci di attaccare il lattosio mentre nella compagine restante della colonia i germi ne erano ancora capaci. Qualche facoltà in quei germi era andata dunque perduta, quindi < **adattati sì ! ma forse con qualche danno patito** >.

**È questo il "dopo - Piccardi" che l'illustre studioso si augurava? Da un cenno di alcune parole significative di **Piccardi (27)1969** nella sua relazione di Montreux del 6 settembre '69 ( 5° Congr. Internaz. Di Bioclimatologia ) parrebbe di sì : < ...è evidente che i sistemi sensibili, e soprattutto gli organismi viventi, possono mostrarci ciò che di profondo esiste nell'universo e mostrarcelo meglio degli strumenti di fisica, sempre strettamente selettivi e perciò incapaci di avvertire una situazione generale.....> - e conclude - < ...La parola sarà ancora una volta allo studio dei fenomeni fluttuanti ed alle scienze della vita >.** Queste oneste parole di un uomo esemplare che siano di buon augurio a chi la buona volontà qui ce l'ha messa tutta con il concorso specialmente di vari studiosi internazionali e ce la metterà ancora sulla scia della conoscenza che il luminare ha tracciato grazie ai suoi test collodali sulle possibili influenze che le energie esterne dello spazio possono avere attraverso la nostra biosfera ( vedi il ricordo del valente studioso realizzato nel sito-CIFA di Lugano :

[http://www.cifafoundation.org/English/Main\\_page\\_EN.htm:C.News33](http://www.cifafoundation.org/English/Main_page_EN.htm:C.News33) al § Editoriale, ovvero vedere nelle stesso sito, il *C.News 32* ).

## RIASSUNTO

Le colonie microbiche a settori differenziati(CSD) variano la loro frequenza in maniera fluttuante in correlazione significativa con due energie dello spazio fondamentali per influenzare la nostra biosfera : l'Attività Solare(AS)e le Radiazioni Cosmiche(RC). La ricerca si è svolta in tre fasi: sui germi dell'aria(miscelanea variabile) , sullo Stafilococco Aureo (ceppi puri di laboratorio) e infine su quest'ultimo in contemporanea a livello del mare , a mille metri al di sopra e nelle profondità d'una montagna sotto 1400 metri di roccia . La frequenza delle CSD delle prime due fasi sono state concordi in modo significativo con le variazioni delle attività fisiche esterne sopra citate, dando valori minimi e massimi che si sono generalmente confermati attraverso gli anni, seguendo un Ciclo di tipo Solare . Le

variazioni di frequenza dei dati CSD risultarono in correlazione significativa con le variazioni delle Energie Esterne qui considerate : positiva con le variazioni delle RC (flusso neutroni) e negativa con quelle dell'AS (Wolf's N°) .I settori differenziati nelle CSD potrebbero essere infine l'evidente testimonianza di un' avvenuta autoriparazione utile alla cellula batterica per sopravvivere e per riprodursi .

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# CLIMATOTHERAPY AND HEALTH IN MOUNTAIN AREAS

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## Hystorical Issue

The history of medicine, from Ippocrate to later, teaches that Galeno usually sent respiratory sick patients to the sea. During the nineteen century, the climate therapy has been one of the milestone of therapy and rehabilitation from sickness, using climate of Lake, Desert, Hill ecc.. In particular, for tuberculosis care based on sanatorium centres for climate therapy.

The rice of antibiotic therapy implied the disappearing of this kind of therapy in Italy, but not in France where the climate therapy “le climatisme” continues till today to maintain a large scientific presence and effectiveness and, in turn, remains one of the modern instrument and tools of the therapeutic media for the care of respiratory and allergic illness. In the case of tuberculosis, the antibiotics show new resistance and *climatisme* come back actual in the therapy of the great disease as showed in recent work by Kiev School of Berezvosky of Physiological Institute of Academy of Science of Ukraine.

Many researchs show also that critical vascular events occur in the frame of weather perturbations with variations of air ionizations (Ciammaichella, Avino, Scalia et al. to Coherence 2013 <http://goo.gl/I2Yxbk> and related articles and books) as confirmed by a lot of observations in emergency area in Florence .

## Quantum chemistry approach to meteoropaties

The new mechanisms for metheoropaties proposed is mainly based upon the results of studies on meteoropathies with SEP (Skin Effect Parameters ) calles in former Sovietic Union BAP (Biological Active Point ) that could be based on measure the Ohm resistance in the chinese meridians seen as circuits to variable resistance. On these circuits, em signal extern and intern to body, or quantum field, could be able to induce relevant modification of electric resistance as observed in some research on Meteoropathies in Spa Medicine, in pharmacoeletrodynamics ecc.

It seems indeed that the Ohm Law, em signal and quantum field could have a key role in general physiopathology. Measures on meridians highlighted in subjects with meteoropathies and various pathologies show that the electrical resistance increased in physical electric circuits with a medium of about 43 scale unites of SEP corresponding to 130,000  $\Omega$ .

“Normal” level of resistance is 95.000 Ohm =50 us

Power in the biological system varies with  $W=V \times I$ , as in every electric system, with functional correlations(performance status, immunological status, muscle power, pain, inflammation, allergy, dyspnea, etc.) and therapeutical correlation in the sense that the increase of bioelectrical power is strongly due to therapeutical effect fo therapy. In this way, it is more clear the effect of SPA therapy, of drug therapy and its choosing on the basis of the coherent effect of quantum signal of drug mediated by vector potential in the Bohm Aranov effect (see Trukan, Preparata, Widom Srivastava etc.).

### **Chronic Diseases by air pollution. The role of climatotherapy**

Chronic Obstructive Pulmonary Diseases (COPDs) constitute a social problem of widespread interest. These diseases increase slowly and constantly. Air pollution and its impact on public health continually re-propose certain absolute priorities, such as the pin-pointing of strategies to control the pollution sources, the planningof observational studies and the epidemic control.

- In 2010, WHO estimated >6 million people die prematurely every year because of air pollution.
- In 2012 the estimated numbers are about 7 million deaths as a result of (indoor and outdoor) air pollution.
- Few controlled human exposure studies that can provide irrefutable evidence of adverse effects after acute exposure to an individual pollutant .
- Difficulty to understand the mechanisms and the role of different pollutants in respiratory morbidity .

Some works shows that a climate marked by always windy weather and low humidity and with low chemical pollutant concentrations (Pietracupa; Molise, Italy) is connected to smaller prevalence of COPDs in comparison with big cities like Rome. Anaologous results are referred with Briançon, Carpazy in comparisonwith big City of Europe (Bruxelles, Paris, Kiev, London, ecc.).

Living in non-polluted areas, the benefits of a healthy climate in terms of an improvement in breathing and bronchial hyperactivity reduction, may only in part be backed up by epidemic evidence; however, they are asolid base on which to build definite research projects which can effectively validate it even from an experimental point of view supported by statistics and basic research on cells, immune-systems ecc.

The possible mechanism seems connected to thermal and igrometric influence, to chemichal pollution, oxigen concentration, altitude, solar radiation, Moon influence, chronobiological influence and also to to air ionization, and gravitationals influences, that meet difficult in mesuration ( sub projects will devoted toimplement these thecnologies) .

When ionization was mesured in Pietracupa give some clear indication about the ions negative terapeutic role that could be able to explaine some strong terapeutical actions of climate in this mountain area of Mediosannio Molise, as referred by some researchers and many people with chronic pain in artrosis subjects and in fibromialgies patients, that was resistent to current therapy in Rome, with clear improvement of performance status .

In the frame of research carried by Biometorological Laboratory of CSB, in collaboration withISPESL of Rome and Campobasso we observe also the high quality of air in the evaluation ofchemical pollution so we think to propose this area as area of Bianco ambientale (white environment) in comparison with polluted urban area where a lot of health disorder seems connected to air pollution. We missed a large study on population to compare climatic effects in Rome and in Mediosannio. A trial started failed for a few cooperation by populationinvolved, the very nice health Center in Salcito (a village close to PietracupaLab)was at that time close (now is active and could be a base for fundamental researches in clinics of effects of climate therapy in this very promising area for climatotherapy)but never was find on the biological substrate for meteo, ionic and electromagnetic influence.

In Biomet Lab in Pietracupa (CB) we measure very low concentration of main chemical compound and we can think (under verifications) that these areas of Appennins and same areas in others mountains on the Alpes, Carpazy etc could be used as Health zone, to care air pollutions diseases from urban areas as experimented also in Briançon with the climatic school for allegercic childrens (to acariens in particulary) and adultes with severe BPCO.

## **Some data on respiratory diseases in the world (data from D. Carpin and P. Damata)**

- 300 million people suffer from asthma conditions.
- 5 to 7 % are adults
- 7 to 9 % children of 6-7 years old (ISAAC)
- 10 to 15 % young adults 13-14 years old (ISAAC)

It's estimated that by 2025 there will be 400 million asthmatics

- ❑ Represents 1% of the world health expenses.
- ❑ The total cost of respiratory pathologies is (in the EC) 100 billion Euros/year.
  - (120 Euros per person per year).
- ❑ Asthma itself in the EC costs 20 billion Euros/year
  - Asthma is responsible for 250.000 deaths per year worldwide (mostly female adults)
  - (> 800 Euros per patient and per year).

### In a few words we could conclude that:

1. the concentrations of chemical pollutants in the Pietracupa and in mountains areas are close to zero (“environmental white”).
2. In particular, we refer to the SO<sub>2</sub>, NO, CO and particulate PM<sub>10</sub> levels.
3. The amount of ozone measured at ground level, instead, is not lower than that recorded in the major Italian cities: this is the “good ozone”.
4. The absence of air pollution and the high levels of negative ions indicate Pietracupa and the Middle Sannio (400 -700 mt of altituede) and the most part of mountain areas as being potentially ideal places in which to invest resources to implement a project on climatic therapy and reliance the economy of mountains areas with a new therapeutic tourism and Global Health Care for people with chronic disease by air pollution in big city .

### **Why is it important to restabilish therapeutic tourism in altitude**

Several studies have been done in order to confirm the positive influence of “resting” in altitudes and its effect in children, adolescents and adults.

The majority of those, have been done in clinics located in the Alps, such as: Briançon, Davos, Misurina, and many observation in others localities in Appennines and Carpazien. These studies have demonstrated the **beneficial effects** in asthmatic patients when staying in high altitudes, clearly showing a **reduction in symptoms**, less **necessity of medication** as well as a lower **risk for being hospitalized**.

### **Resolution of Briançon**

In the 15 december in the office of CEMBREU “Centre Europeen Medical Bioclimatique de Recherches et d’Enseignement Universitaire” (FR) was held a meeting with objective the reliance

of Mountain areas in Europe finalized to reequilibrium between Urban Areas (polluted and overpopulated and Mountain areas, natural reserve for Health protection abandoned in the riceversus big city).

In the Meeting participated by leading scientist from France, Ukraine Portugal, Italy and Switzerland, was analyzed and discussed prominent data by air pollution in big city and comparison with air quality in Mountain area (Briançon and Sannitic Apennine) that show critical difference that can explain some therapeutically effect of integrative therapy on respiratory diseases (asthma, allergy in child, COPD tuberculosis and others) in altitude as referred by Pedro Damata of Lisboa and Denis Charpin of Marsiglia University and Vadim Berezovsky from Kiev Academy of Science ).

The great experience of Briançon starting in the early of last century, and relanced by the great work of Hassan Razzouk is a great scientific and Medical heritage for Briançon, the France and the Europe facing with emergent urban diseases that collapse the health system and make weak productive capacity of Europe.

In this line Mr. Declan Kirrane of Intelligence in Science of Bruxelles give to meeting the direction to create a leading project for UE and WHO. This document will be integrate with a White Book coordinated by Vadym Berezovski on Mountains Climatotherapy and a project of research (see annex draft form Pedro Damata and Denys Charpin), that will developed in Rome to end of September pv.

[http://www.cembreu.fr/mrbio/index.php?option=com\\_phocadownload&view=category&download=64:a08-reunion-de-travail-portant-sur-le-projet-de-recherche-europeen-sur-le-climatisme&id=1:comptes-rendus&Itemid=127](http://www.cembreu.fr/mrbio/index.php?option=com_phocadownload&view=category&download=64:a08-reunion-de-travail-portant-sur-le-projet-de-recherche-europeen-sur-le-climatisme&id=1:comptes-rendus&Itemid=127)

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# Dallo spirito informativo alla medicina quantistica

Lino Daddi (Già Capo del Gruppo di Fisica dell'Accademia Navale di Livorno)

## 1 – Triplice composizione della identità umana.

Il dualismo *anima-corpo* fu adottato dalle più antiche religioni e/o filosofie e praticamente da nessuna di esse è stato rifiutato; cioè nessuno ha rifiutato l'anima, questa spirituale componente della identità umana. Del resto molte delle più importanti religioni ammettono il ricongiungimento anima-corpo alla fine dei secoli: ciò implica la fede nella reincarnazione dell'anima. Ma a quale corpo ? A quello al quale era stata associata alla nascita, oppure al corpo quale si era presentato in una età successiva ? A questa domanda mi pare che non siano mai state date risposte soddisfacenti, tanto da giustificare dubbi fondati sulla reincarnazione stessa. Però a questo destino finale del corpo e dell'anima sono legate le religioni di origine divina: se Dio ha presieduto alla loro formulazione, non dovrebbero essere accettate nella loro integrità dai fedeli?

Ma forse non siamo obbligati, né dalla religione né della filosofia, a limitare a due le strutture in cui si articola la persona umana. Perché non almeno tre ? In fondo tutte le grandi religioni sono nate presso popolazioni di scarse conoscenze scientifiche, così i loro Creatori avranno forse voluto semplificare.

A questo proposito segnalo che la divisione in tre parti : *corpo, anima, spirito* è appunto quella adottata in un libro sui guaritori russi, eredi degli antichi Sciamani, edito recentemente dalla *Macro Edizioni di Cesena*(<sup>1</sup>). Secondo questi Autori l'anima, che oltre che nel cuore sarebbe all'interno dell'epifisi, esercita sul corpo la sua azione; essa farebbe da tramite fra lo spirito ed il corpo servendosi delle emozioni, delle sensazioni, dell'olfatto. Il piano spirituale non sarebbe soltanto il "divino" ma sarebbe costituito da tutte le informazioni generate nel corso dei tempi in quanto, secondo gli Autori, tutto si unisce e trascende la nostra personalità: noi entriamo in risonanza con ciò che è. Dunque lo spirito non avrebbe una limitazione individuale, ma un carattere collettivo (per esempio in scambi telepatici fra due o più persone). Alla sua azione gli Umani ricorrerebbero ogni

volta che si abbia uno scambio di nuove informazioni, e ciò avverrebbe con notevole rapidità e grande capacità di elaborazione. In particolare nell'attività dei guaritori. Essi provocano autoguarigioni trasmettendo idonee informazioni allo spirito dell'ammalato.<sup>(1)</sup>  
P. Neumayer – T.P. Rietdorf : GUARITORI RUSSI Ed. Macro 2014, Cesena.

In questa ottica penso che qualche volta una notizia o un'impressione sensoriale potrebbe essere scambiata, tramite lo Spirito, in una interazione fra molte persone, in una intera folla. Ciò potrebbe spiegare allucinazioni collettive, anche quelle che i presenti furono portati ad attribuire a Dio. Ma forse un'origine divina non è sempre necessaria: potrebbe bastare che lo spirito di qualcuno dei presenti fosse dotato di una capacità di suggestione molto forte. A questo punto perché non pensare anche ad episodi "miracolosi" in cui si sono visti eventi inaccettabili dalla scienza ufficiale? Per esempio gli episodi di sole ruotante, visti da migliaia di persone, ma smentiti da osservatori astronomici. Mi riferisco in particolare alle apparizioni astronomiche di Fatima e di Ghiaie (ma ne sono state segnalate varie altre).

## 2 – Verso osservazioni scientifiche oggettive

Ovviamente sarebbe importante poter organizzare qualche verifica ben riproducibile, sostenuta da misure di alta tecnologia, oggi possibili magari con apparecchiature già esistenti collegate a computers di adeguata capacità. Mi riferisco in particolare ai QXCI-SCIO (importati in Italia dalla Società Italiana per la Medicina Quantistica) utilizzati appunto nella medicina quantistica, che possono essere programmati per fornire misure certe dei deboli campi elettromagnetici oscillatori che circondano gli esseri umani. Per "medicina quantistica" si intende la scienza in cui vengono misurati campi elettromagnetici variabili (generalmente di bassa frequenza) provenienti da un corpo umano o incidenti su di esso, capaci di rilevare dove transita un quanto e di misurarne l'energia. Con l'aiuto di adeguati computer è possibile individuare punti e/o organi caratterizzati da irregolarità di questo spettro e, magari automaticamente, procedere a correzioni (e/o guarigioni) delle irregolarità osservate. Così si ottengono data-base scientifici che possono portare a molti tipi di analisi, costituenti un corpo di dati trattabili con moderni metodi matematici.

Con QXCI-SCIO è possibile riferire anche le emozioni, così esso fornisce un quadro olistico per esplorare il disagio nella sua globalità di corpo e mente. Un organo malato può essere indotto a vibrare nella sua frequenza corretta iniziando a guarire "per biorisonanza". Il funzionamento, che si dice avvalorato da recenti scoperte della fisica quantistica e della biofisica, non tiene conto delle sensazioni del paziente né di eventuali prevenzioni del medico.

PRELIMINARY AGREEMENT

IN THE FRAME OF FLORENCE CONFERENCE

ON INTERACTION OF WEAR ELECTROMAGNETIC FIELDS WITH LIVING  
MATTER 18/02/2011.

AFTER DISCUSSION ON ANTIBIOTIC RESISTANCE AND DRUG SIDE EFFECT  
PRESENTED BY ALESSANDRO BARTOLONI, WE DECIDE TO ACTIVATE AN  
INTERNATIONAL AND INTERDISCIPLINARY GROUP OF WORK ON DRUG  
RESISTANCE ELECTROMAGNETIC FIELD AND NEW QUANTUM APPROACH TO  
DRUG THERAPY FINALIZED TO IMPROVE THE RATIO RISK/BENEFITS AND  
DRUG THERAPY.

FLORENCE, 18 FEBRUARY 2011

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FIRENZE

BELLINZONA

ROMA

MOSCA

ROMA

Roma  
Campobasso

# **PHARMACOELECTRODYNAMICS AND PSYCOENERGETICS TO IMPROVE POWER OF DRUG AGAINST DISEASES, AFTER SURGERY AND PTSD**

**Prof. Vincenzo Valenzi**

<http://www.unimeier.eu/dipartimenti/scienze-biomediche.html>  
[www.cifafondation.org](http://www.cifafondation.org)

## **PHARMACOELECTRODYNAMICS**

1. It is possible improve efficacy of great drug in the therapy of pain, infections, allergy, stress and gastric disorders, hypertension, in [Pain After Surgery : Managing & Treating ...](#) and many other diseases using elettroquantistic model and technologies applied with dynamometry, skin electric measure that could improve also the autogestion of first level of therapy by people in far theatres <http://www.biophys.ru/archive/congress2012/valenzi.pdf> .

This practical development must be tested asap not only on the operative field, but also to theoretical and experimental pharmacological clinics in great center of researches and in biophysical theoretical development using the fundamental basis posed 15 years ago in a research on 500 military in GDF in Rome <http://www.22passi.it/downloads/biorisonanza/qeddefinitivo.pdf> .

In this pharmacoelectrodynamics model we can see how electrical phenomena are operative not only at the level of a single cell but in all human body on top of to nervous and muscolar system, with not only ecg or eeg or emg but with with other electric and Ohm applications to life.

Over the last fifty years, R. Voll showed that human body could be seen as an electrical system with the electric circuitry not in the Chinese meridians scheme based on a qualitative Yin Yang law, but following a quantitative Ohm's Law and that coherent and incoherent quantum interactions rule on the bioelectrical status (connected with performance status and phisiopatological processes).

In a nutshell, the appearance of electric voltage on the skin suggested that an electromagnetic (e.m.) and a quantum mechanism could underlie the so call pseudoallergies to drug: since these symptoms were the effects of drug, the ***intriguing possibility arises that the molecules of drugs could involve a quantum and e.m.action apart from the well know chemical action.***

Hence, the paradigm : **It's the dose that make the drug**, may not be universal.

General measure on meridians (*work carried out by Valenzi, Gorgo, Ragulskaja and others*) highlighted in subjects with meteoropathies and various pathologies, that the electrical resistance increased in physical electric circuits with a medium of about 43 scale unites of SEP corresponding to 130,000  $\Omega$  . "Normal" level of resistance in human body measured with the EAV (Electric acupuncture of Voll) is 95.000 Ohm =50 us After the administration of a coherent therapy, we saw

a decrease in the resistance in a medium at  $39,000 \Omega$  (70 us), with an improvement of bioelectric performance due to an increase of physical electric currents, in accordance with Ohm's law,  **$I = V/R$** .

Power in the biological system, measurable with dynamometer (0-100 Kg) with muscular test, vary with  **$W = V \times I$** , with functional correlations (performance status, immunological status, muscle power, pain, inflammation, allergy, dyspnea, etc.).

It is well known from the work of Bohm-**Aharonov**, Josephson, Putof, Preparata, Trukan, and others, that the electro conductive phenomena could be influenced not only from B and E (the electric and magnetic fields) but also from A (the vector potential).

This effect seems play a real role in our understanding of the critical problem of sideeffects of drug (more than **100000** Americans die every year Lazarou et al. **JAMA** 1998; 279:1200–1205).

It open a **new way** towards pharmacoelectrodynamics for a tailor made or coherent therapy with drug, nutraceuticals, spa, etc. that could improve the risk/benefit ratio in medical treatments and power of drug against diseases.

Of course many research could be developed in fundamental areas of anatomy, physiology, neuroscience, quantum chemistry etc. in a very easy and intriguing approach to global human system that could be tested on critical areas where Health and Power of people is essential to win in the various field of competitions.

15 years of medical practise and fundamental research teach us that we can improve, **here and now**, the great and wonderful power of drug therapy, reducing near zero side effects.

Now this results must be IN PRACTISE with instruction on people that need fast treatment of common disorder as allergy, pain, gastritis, stress ecc).

But it will be interesting develop research in clinics and in theoretic and experimental approach and the project developed for ESA in 2019 could be used as basis for this project .

## PSYCOENERGETICS

Come si può leggere sopra benché la farmacoelettrodinamica goda di una diffusa diffidenza oltre i confini dell'incrudelità più o meno condizionata, essa non di meno possiede solide basi sperimentali negli ultimi 50 anni di ricerca da Reinoldh Voll in poi oggi modelli teorici raffinati, che affondano e basi nella grande fisica sono disponibili, con recenti sviluppi in corso tra Boston (Allan Widom e Yogendra Srivastava e Mosca Edvard Trukan e colleghi che incontrano resistenze a pubblicare su temi connessi il potenziale vettore trattato ancora alla stregua di stregoneria dai più anche nella

Comunità Scientifica affezionata alla linearità nelle interazioni chimico fisiche). Ma come è stato più volte osservato, LAFARMACOELTTRODINAMICA E' ALLA PORTATA DI CHIUNQUE VOGLIA FARLA IN BREVE TEMPO ( UN DINAMOMETRO, UN TESTER BIOELETTTRICO E TANTI RISULTATI IMMEDIATI CHE AUMENTANO LA POTENZA DELLA FARMACOTERAPIA E NE CONTROLLANO LE REAZIONI AVVERSE AUMENTANDO LA COERENZA DEI SISTEMI BIOLOGICI).

Qualcosa del genere è accaduto anche ad un altro fisico americano Hal Puthof che ha sviluppato un brevetto che intende sfruttare le proprietà superconduttive del Potenziale Vettore nei sistemi di Comunicazione.

Il geniale fisico statunitense si è anche cimentato con i fenomeni di Remote Sensing che sono al centro di polemiche dure nella Comunità Scientifica che le tratta alla stregua come stregonerie con complicità per la sua carriera.

Del tema se ne occupa ad altissimo livello il Premio Nobel per la Fisica Inglese Brian Josephson (oramai intoccabile ma neanche troppo) come si può apprezzare dal suo sito personale e un gruppo di lavoro e attivo presso il Dipartimento della Difesa USA

<http://stardrive.org/stardrive/index.php/news2/science/13982-us-statedepartment-dod-use-of-psi-in-intelligence-collection>

Altri gruppi sono attivi più o meno segretamente contrassegnati la maggior parte da un tratto mistificante paranormale che esalta le capacità dei singoli operatori alla stregua di Santoni contribuendo alla credenza che trattasi di proprietà mistiche religiose e/o truffaldine.

Di fatto queste tecniche affondano le radici nell'Antico Oriente dove in particolare in India vengono mantenute come una proprietà tipica del Paese con qualcosa di simile a un Ministero per lo Yoga che tenta di valorizzare il potenziale di guarigione intrinseco in queste tecniche

Numerosi sviluppi biotecnologici consentono di apprezzare lo stato funzionale dei sistemi neurofisiologici associati ai Chakra e pongono su una base osservabile misurabile alcune attività di psicoenergetica attiva che consentono ad alcuni soggetti idonei di intervenire con attività poco comprese ad oggi sullo stato funzionale psicosomatico regolato dalle entità definite chakra.

Tali attività di grande interesse per la diagnostica di stati conflittuali inconsci consente a certi livelli interventi terapeutici di psicoenergetica capaci di intervenire sui primi livelli di attacchi di panico e sulla PTSD.

Su forze fresche e in generale buona salute psicofisica la possibilità di gestire ansia stress e stati psicosomatici correlati integrando farmacoelettrodinamica e psicoenergetica e magari modulando la

nutrizione, possono raggiungere risultati di grande interesse per le prestazioni atletiche psicofisiche degli operatori sui teatri operativi.

L'obiettivo a breve medio termine è di aumentare la capacità di autogestione a livello farmacoelettrodinamico e a breve medio termine di formare una rete di leader nei gruppi operativi capace di gestire a livello psicoenergetico una parte degli stati di indebolimento legato a stress attacchi di panico e sentimenti di disordine quali paura dubbi ecc che riducono la potenza degli uomini sui teatri operativi.. Si può prevedere un servizio di supervisione a distanza sia a livello biotecnologico con sistemi di telemedicina a vari livelli che a livello di psicoenergetica che supportino situazioni difficili o alle prime esperienze.

Lugano 27 febbraio 2015/6    Vincenzo Valenzi

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## GDF RESEARCH

**Vincenzo I. Valenzi, Maria Luisa Roseghini:** *From Drug intolerance to a SEP (Skin electric Parameters) driven therapy. Some preliminar observation.* Rivista di Biologia/Biology Forum 93 (2000) pp. 306-312.

### From drug intolerance to a SEP( Skin electric Parameters)driven therapy. Some preliminary observation.

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#### Riassunto

L'interazione farmaco recettore e esclusivamente di natura chimica? La "pallottola magica" e una particella o un'onda? Sono domande che sorgono dallo studio pilota sulle intolleranze farmacologiche. Le prime osservazioni mettono in luce un nuovo scenario costituito da circuiti elettrici corporei misurabili sulla cute, all'interno dei quali le variazioni di conduttanza indotta da segnali fisici, appaiono giocare un ruolo nella diagnostica delle intolleranze e nella guida alla scelta dei farmaci, che sembrano avere oltre ad un'azione chimica ben nota, un'azione fisica di tipo quantistico che per essere compresa necessita di ulteriori studi teorici e sperimentali.

#### **1- The magic bullet**

Only in recent times, in the 19th Century, Pharmacology has accepted as its own frame of reference the Galileian point view on science, putting aside old fashioned doctrines and time honoured prejudices which never have undergone rigorous experimental tests. Actually at the time most therapies were the outcome of more or less imaginary beliefs on the aetiology and subsequent evolution of the disease or from sketchy observation on the beneficial effects of selected remedies on some individuals (1).

In 1872 Buchheim (2) defined the aim of Pharmacology as follows. << should we replace our present fuzzy ideas about the drug dynamics with a rigorous physiological conceptual frame, we would have achieved a fundamental progress. However, the knowledge of the action of a definite drug should imply that we are able to derive all the details of its activity from its chemical structure>>

A fundamental progress for understanding the relationship between a drug and the cell components has been achieved when the concept of “drug receptor” has been formulated.

Paul Ehrlich (1845-1915) deserves the merit of having the insight that the effect of drugs could be understood against as the consequence of their chemical interaction with the tissue. Then he stood against the “vitalistic” approach, still deeply rooted in the early years of the century; the basic tenet of “vitalism” was that the effectiveness and specificity of drug could not arise from the laws of physics and chemistry, but would require the active presence of some supposed “vital forces”, Ehrlich (3), on the contrary, stressed that, to be effective, the molecular components of a drug should “bind” to some specific component of the cell. He defined accordingly the receptors as “the active group of molecule of the protoplasm where it is possible to bind a corresponding chemical group of a molecule not belonging to the protoplasm>> . To better explain this concept he proposed the suggestive definition of a <<magic bullet>> able to hit its specific target (the “receptor”) in the crowd of chemical components of the living organism.

## **2. Drug intolerance**

However the “magic bullet” is not always able to get the target. Frequently, in spite of the ceaseless progresses of pharmacology, adverse and intolerance against the drugs may occur and produce situations where a careful evaluation of the risk/benefit ratio of the use of the drug is mandatory. A fraction as the 70/75% of the disease induced by drugs cannot admit any explanation in terms of the usual immunological reactions, although those symptoms were induced by drugs which were well known allergens. In these cases the disease has been christened as “pseudoallergy” or drug intolerance. The drugs which elicit largest pseudo-allergic response are the antiinflammation non steroid ones, some antibiotics, the local anaesthetics etc.

The most frequent symptoms are quite similar to exhibited by “real” allergic reactions, but less intense and acute. In the “real” allergies the typical diagnostic probes are the skin reactions, the nose and mouth stimulation tests, the measurement of the specific IgE (Rast), the “in vitro” lymphocitary blastization and others. In the last four years, Dr Umberto Grieco (see his contribution to this meeting) has made us familiar with the experiences of the Voll Electroacupuncture, that have achieved surprising successes in the diagnosis of the food and drug intolerance. After many exchanges with Umberto and a number of tests a the Centre of Immuno-allergology led by prof. Franco Filiaci, we were convinced that a controlled investigation was useful with the aim of checking these surprising phenomena.

In a nutshell, the appearance of electric voltage on the skin suggested that an electromagnetic (e.m.) mechanism could underlie these strange pseudo-allergies; since

these symptoms were the effects of drug, the intriguing possibility arose that the molecules of drugs could extrinsecate an e.m. action apart from the universally accepted chemical action.

In order to probe this possibility, in the 1998-99 many discussions(4) occurred in the Rome medical research community, which have included , among other, Dr Paolo Cascino, Prof. Baldassare Messina, Prof. Maria Luisa Roseghini, prof. Franco Filiaci and prof. Vincenzo Martinelli. The practical outcome of these debates has been the start-up in April '99 of a widerangeresearch program, run by the Surgeon Department of the University of Rome "La Sapienza", on a population of patients provided by Italian Treasury Police (Guardia di Finanza).

The object of the research is the systematic measurement of the skin electric parameters and the search for correlation's with the existence of food and drug intolerance.

In the first experiments an EAV-Voll Electric acupuntures (5-6) equipment has been used. This equipment measures the electric conductance in the body along paths which coincide with the meridians as recognised by Chinese acupunture (fig.1-2). Notice that the present understanding of the skin electrophysiological effects does not yet allow a satisfactory modelling of the phenomenon and , furthermore, the intrumentations, which is produced mainly in Germany, is not yet so reliable to guarantee a complete reproducibility of the tests. It in thus mandatory to correlate the EAV data with the usual clinical and diagnostic results.

### **3. Outlook of the research**

The pilot study program has involved so far more than 250 volunteers and the crossing of the EAV and clinical evidence has opened a new horizon to the drug therapies.

The preliminary results, to be checked further with double blind tests, show a dramatic improvement of the risk/benefit ratio by the avoidance of the drugs which exhibit lowering of these adverse reactions by a skilful use of the EAV techniques.

The main problems to decipher the physics dynamics of this interplay between chemical drugs and the body electric conductance. We have observed how drug and food introductions in biological system, can increase or decrease the coherence of the system. Analogous to what occurs in super conductive materials (see volume "From quark to crystals" of Giuliano Preparata, in press) an increase of coherence is associated to phenomenon of high conductance. It is in this way that we observe that an efficient drug, produces in the electrical circuit of the human body, an increase of conductance of

approximately 30/70%, that is correlated to an increase of energetic power provable with “chinesiological” tests and impressionable clinical improvements.

This is the rationale of the convocation of the today Meeting on the possible role of Quantum ElectroDynamics (QED)(7) in Medicine. We have invited Giuliano Preparata and Emilio Del Giudice in order they help us to understand by the QED mechanism how drugs could show an action -at- a- distance, which should underlie the body electric phenomena and open new ways to the drug electrodynamics.

## **P.I.**

**In the last study in preparation of double blind trial, we have observed in twenty allergic patients, that the association of an antihistaminic drug (loratidine, mizolastine, cetirizine ecc) wiht a cortisonic drug (betametasona , mometasone, deflazacort ), driven from the SEP (Skin Electrical Parameter), give an 90/% of regression of the symptoms allergic (rhinitis, ecc).**

**This results are obtained from patients, without intake of drug, but with the utilise of thedrug for electrodynamics action, with application of the drug external to the body. The development of intolerance to the drug, seems strongly correlated to the fall of the conductance in the body. The substitution of drugs with the improvements the conductance, is correlate to immediate regression of intolerance and allergic symptoms.**

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*Gli autori ricordano con riconoscenza il contributo alla stesura di questo articolo del prof. Emilio Del Giudice*

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