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GDF DATABANKS BULLETIN, VOL. 19, NO. 6, 2015 ISSN 1453 - 1674 Evidence of human mental field by ac-electric conductivity in electrolyte solutions. 1. Bio-energy.

The recent series of intense studies on the effect of Human Mental Field (HMF) on water and aqueous solutions revealed specific interaction of HMF with amorphous-crystalline coupling [1-3]. This interaction occurs with other composite materials having spatially coherent distribution of components (for instance fibers and cold-rolled films [1]), steady-state flowing liquids [3]).

Studies on ac-electric conductivity of electrolyte aqueous solutions have revealed that at low frequencies (at approximately 100 Hz) and for solutions diluted at approximately half the saturated ones (0.5sat), structural differences are optimally evidenced [2].

Experimental: ac-electric conductivity in an aqueous solution of 0.5satCuSO4anh at 70.00 \pm 0.01 Hz sin signal (to avoid interference with line 50 Hz), at low voltage (Ueff = 1.968 V) (with Direct Digital Synthesis (DDS) generator model UDB 130xS), low current density (ieff \approx 93µA/sqmm), and at room temperature (RT: +9 to +18 ⁰C, mentioned on the graphic always next to the date) were performed non-stop for 24 hours/day (mentioned as Hour Of the Day, HOD) for several months. Cell assembly (Figure 1) was introduced in a completed closed iron cylinder connected to ground as electric shield and all measuring assembly was placed between two grounded galvanized iron sheets. These electric shieldings were proved as not affecting the results obtained without them.

Figure 1 shows the cross section in the measuring cell assembly. The ac voltage at the cell was rectified by a High Impedance Precision Rectifier (HIPR) prior calibrated for standard Ueff values at 50 Hz and by using two supply double voltages (Figure 2). Figure 6 presents the schematic of measurement circuit and the Udc(HOD) graphic resulted for precision resistors in view to evidence the stability and the measurement errors. Udc values are stored for each 24 hours on a memory stick by using a data logger with 16 bits resolution and 1 minute sampling rate. Values are subsequently retrieved on PC in Excel under Windows®. In view to estimate an average or classical RMS value (Root Mean Square) the average values on 8 consecutive values are calculated. For proper acelectric conductivity measurements on electrolyte solution, the resistor R is replaced by the measuring cell at the same parameters. The values of resistors have the same order of magnitude as for electrolyte solutions at 100 Hz and the same measuring cell as in the prior measurements [2].

The basic idea as proposed objective of these measurements consists in evidencing a clear correlation between variation of Udc and modifications observed on HMF and other phenomena observed around the measuring assembly as it was established in previous studies [1-3].

Structural aspects: Figure 3 resumes the calorimetric melting endotherms obtained for successively diluted solutions of CuSO4 where a spectrum of amorphous-crystalline couplings is evidenced even for pure water component (the major endotherm). Figure 4 schematically presents the 3D structure of electrolyte solution in an initial stage (A) and after a long time submitted to ac-electric conductivity at low frequency were a coherent and stable structure is reached and oriented along the applied electric field (B). Structure A has a greater ac-electric conductance (lower Udc) than structure B where 3D structure is more dense with higher impedance and Udc. In the case of HMF and/or other phenomena interact with conducting 3D structure Udc must show specific variations.

It is important to mention the Morisson's (CERN) observation on regionalization of cold fusion experiments performed also in electrolyte aqueous solutions [5]. According to these results his observation can be explained just by specific effect of local such interactions on reacting systems.

Figure 5 shows the structural detail of amorphous-crystalline coupling initially established for polyethylenes [7], subsequently established for water and aqueous solutions [4, 6] and furthermore detected at a large variety of coherent composite materials.

The first series of experiments (Figures 7-14) were performed in view to establish the exact repeatable conditions. Some parasite effects like mechanical vibrations/sounds where diminished by immersing the cell in a jar with water (Figure 1).

Observations are mentioned on each graphic in view to be correlated with the resulted Udc(HOD). **Note 1:** No other person excepting me was in the vicinity of measuring assembly closer than 20 m and my presence even next to it has no visible effect on measurements.

Note 2: The initial/fresh electrolyte solution needs a period of "adaptation" up to a structure and steady-state regime of measurement. After each interruption of experiments (for instance caused by electric breakdown and/or sometimes by accidental signal of 10 kHz), even the old solution needs such accommodation stage for at least 24 hours. All further graphics are performed on the same solution and results systematic difference between night when people are in relaxed state of their mind at their homes so Udc progressively increases and day when people gather in crowds on the street, in transit, in public places and the resulted HMF is specific high and Udc decreases.

Note 3: My house where the experiments were performed, is located at approximately 100 m from an important road (Turda Street) connecting several big districts in Bucharest (capital of Romania). The commuter transit on this road by cars and trams has specific levels depending on HOD, weather and/or holydays. These parameters are driving also the HMF of the commuter crowds and its effect on ac-electric measurements.

Note 4: The effect of weather on HMF, for instance in the working days when temperature suddenly decreases the traffic and crowds are considerably diminished. On several graphics vertical lines are drawn marking crowds formed and observed directly by me on the road and in a closest tram stop.

Note 5: Each vegetation burst specific to springtime has a powerful relaxing effect on Udc. The most evident such phenomena I observed were in the morning of 16th, 19th, 26th and 27th April when in approximately 3 hours appeared and grew up leafs and flowers at different stages of development in majority trees and bushes (Figures 59, 62, 69, 70). Vegetation starts in the morning when sun light is on appearing every day since 26th April and is counteracted later by HMF. Vegetation and HMF of human crowds involve the same form/nature of energy interfering each other and both with electrolyte solution. We may call it as bio-energy, but having opposite polarity, namely with structuring and de-structuring effect on electrolyte aqueous solution, respectively.

Note 6: Warm and short rain/shower with lightenings and thunders has a relaxing effect on HMF and subsequently on Udc (Figure 61), while long term rains with great decrease of temperature (Figures 39-41, 49) have a blocking effect on HMF. In both cases Udc increases, but in specific ways, namely as a short burst and with a small slope, almost constant Udc value, respectively. These facts are in someway similar with induction effect observed by removing a ferromagnetic core with different speed in an electric coil.

Note 7: HMF as main contributor in Udc variations, has a clear cyclic variation with a period of 24 hours typically consisting in the first stage over night by a relaxation process (Udc monotonously increases) and during the day (working day) as the result of active minds of a population crowd for which Udc decreases usually in steps whose amplitude and time (HOD) depending on the population size and their mind activity. If the human community around the measuring system is approximated as closed, i.e. same people all time during measurements, it is important to evidence the level of HMF relaxation and activity on long term. It is important to compare the Udc values at 0 and 24 HOD by their difference Udc(24) - Udc(0): > 0, HMF was relaxed, = 0 is unchanged and < 0 HMF gained a mental stress during that day. These measurements evidence stress management in human communities as driving potential for their health state/morbidity and social stability.

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Figure 1. Cross section of ac-conductivity measuring cell assembly.



Figure 2. HIPR calibration.



Figure 3. DSC multimelting of CuSO4 solutions evidencing spectrum of amorphous-crystalline couplings (figures reproduced from ref. [4]).



Figure 4. Schematic representation of electrolyte solution structure. A: initial structure; 1—crystalline domains; 2—amorphous phase; B: structure after a long treatment under ac electric field without any other perturbations (for instance: HMF, mechanical vibrations, etc.). Figure 5. Schematic structure of water crystalline domains composed by pure crystalline phases (Cin) and local amorphous (intercrystalline) domains (Ctr). (reproduced from ref. [4, 6]).

Fig. 4. Structural sketch of disclination state of crystalline (C_{in}) and intercrystalline (C_{ir}) components in raw crystallized morphology.³ The terms C_{ir} and c_{ir} could involve deuterium and palladium atoms and other atomic and molecu-

lar species for FPE.



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			Solubility behavior introducing topoenergetic working principles.													
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1997	1	2	Guide of good practice in metrology (Romanian)	AFI												
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			AWARD for ISOCALT® at the International Fair TIB 2004. October 2004		
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			(12 th International Metrology Congress, 20-23 June 2005, Lyon, France)		
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			Universal representation of Cancer Diseases. 1. First sight on NSW-2003		
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			1999-2002. Vital Potential can estimate our predisposition for cancer diseases		
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