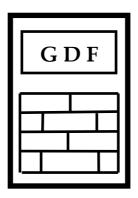
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Stability of amorphous-crystalline coupling in electrolyte aqueous solutions in relation to interaction with bio-fields

If we try to destroy the truth, it will destroy us.

Latest studies upon interaction between amorphous-crystalline coupling in electrolyte aqueous solutions and bio-fields generated by humans, flora and fauna have revealed both reversible and irreversible modifications of this coupling during long time measurements [1, 2]. Ideally would be to refresh the solution at each 24 hour measurements in view to avoid irreversible structuring caused by ac electric field applied during measurements and positive effect of bio-fields.

Other practical procedures are to remove periodically irreversible structural changes in rigorous controlled conditions and/or to stabilize reversible structure by adding solutes for instance organic and/or amphiphilic compounds as it has been evidenced in previous studies [3, 4].

The aim of the present note is to evidence more clear both reversible and especially irreversible structural changes in aqueous solution of 0.5N(CuSO4anh) considered in the recent study [2, 5]. Two series of 2 month measurements are considered each one with fresh solution at starting point, namely for (March, April) and (October, November). These periods are selected especially because the intensity of bio-fields is different and subsequently their irreversible and/or reversible effects.

Figures 1 and 2 show the daily variation of minimum (min) and maximum (max) of the measured Udc [2] for the two springtime months. Arrows mark Mondays. Figures 3 and 4 show the same variations during both series of two month measurements. It is important to observe: (i) the same starting values in both series substantiating the initial structure of fresh solutions from the same stock solution; (ii) springtime series shows greater structural changes than autumn series due by the more intense bio-fields in competition; (iii) clear different slopes, namely greater structuring in the series of (October, November) due by low intensity of bio-fields, especially the de-structuring effect of human mental field (HMF) which exceeds other bio-fields in the human populated location of measurements.

Figures 5 and 6 show daily variation of min and max values of Udc.

Table 1 shows clearer the above mentioned aspects by most important figures calculated from these measurements. The positive values are specific to irreversible structuring effects mainly due by the ac electric field in competition to the de-structuring effect of HMF.

Tuble 1.					
Period of	mV		mV.	/day	
measurements (2015)	min=min(Udc)	max=max(Udc)	Sum(d(min)/day)	Sum(d(max)/day)	
March + April	458	531	54	60	
October + November	460	593	102	121	

Table1

Concluding remarks: Composite structures have specific interactions with bio-fields both as nature and magnitude. Stability of composite structures is given by reversible changes resulted by this interaction. There are individuals with very intense HMF destroying composite structures considered as very strong according to classical material tests. For each kind/nature and magnitude range of measured bio-field it is necessary to select/synthesize the right composite structure with optimal response/sensitivity and stability.

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Figure 6.

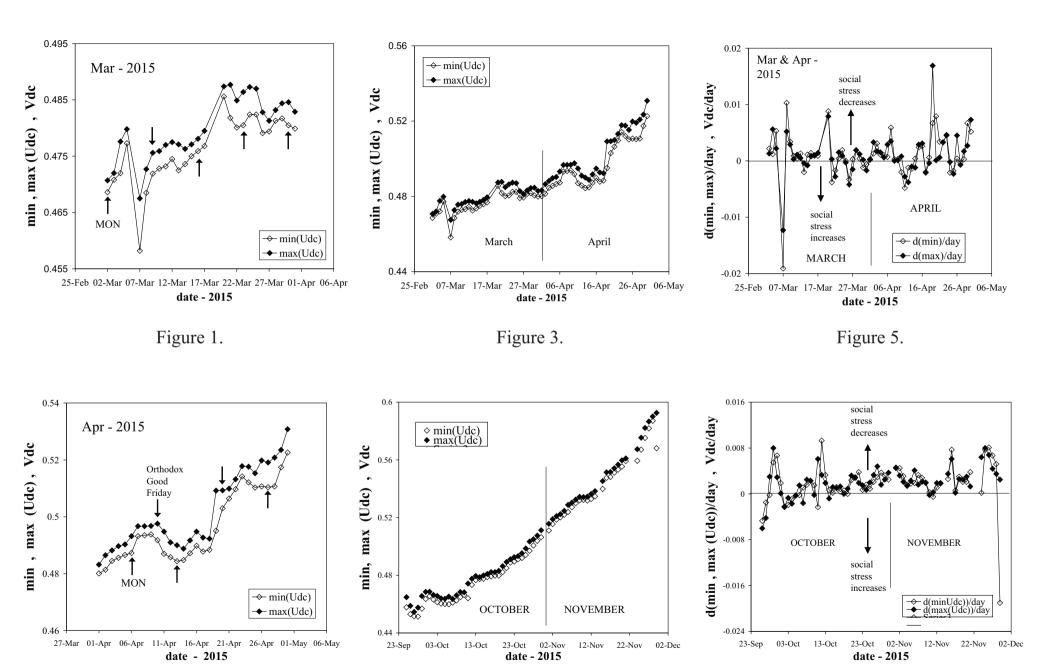


Figure 4.

Figure 2.

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Previous issues of GDF DATABANKS BULLETIN

Year	VOL	NO	Content (titles)	\$*)
1997	1	1	Editorial: Databanks – the compulsory language. LOGKOW – a Databank of evaluated octanol-water partition coefficients (James Sangster). Solubility behavior introducing topoenergetic working principles. Comments on 1-octanol-water partition of several n-alkane related series.	
1997	1	2	Guide of good practice in metrology (Romanian)	AFI
1998	2	1	Editorial: socio-psychological implications in creation and utilization of a databank (Ioan-Bradu Iamandescu); Behavior in vapor-liquid equilibria (VLE): I. Structural aspects; Behavior in vapor-liquid equilibria: II. Several structures in databanks; Symposium on VDC-4 held on 30 October 1997 at Lubrifin-SA, Brasov (Romania).	
1998	2	2	Practical course of metrology (Romanian)	AFI
1998	2	3	DIFFUTOR-01: Thermally driven diffusion in pure metals	AFI
1998	2	4	VAPORSAT-01: Databanks of thermally driven VLE. The first 100 simple molecules	AFI
1999	3	1	Editorial: New trends in material science: nanostructures (Dan Donescu) DIFFUTOR: Databanks of diffusion kinetics. VAPORSAT: Databanks of vapor-liquid separation kinetics.	F
1999	3	2	Discussions on Applied Metrology	AFI
2000	4	1	Editorial: Laboratory accreditation and inter-laboratory comparisons (Virgil Badescu) Doctoral Theses – important data banks. GDF intends to open new series of experiments on thermo-physical properties. Some comments on uncertainty: global budget and DFT analysis. Events: The 9 th International Metrology Congress, Bordeaux, France, 18-21 October 1999.	F
2000	4	2	Measurement and Calibration.	AFI
2001	5	1	Editorial: Metrology ensures moral and technological progress. Topoenergetic aspects of amorphous-crystalline coupling. I. Composite behavior of water and aqueous solutions (paper presented at nanotubes and Nanostructures 2001, LNF, Frascati, Rome Italy, 17-27 October 2001). Events: Nanotubes and nanostructures 2000.School and workshop, 24 September – 4 October 2000, Cagliari, Italy.	F
2001	5	2	Editorial: Viscosity – a symptomatic problem of actual metrology. Visco-Dens Calorimeter: general features on density and viscosity measurements. New vision on the calibration of thermometers: ISOCALT® MOSATOR: Topoenergetic databanks on molten salts properties driven by temperature and composition. MOSATOR-01: Topoenergetic databanks for one component molten salts;	F
2002	6	1	thermally driven viscosity and electrical conductance.	AFI
2002	6	2	Editorial: HuPoTest - Operator calibration or temporal scale psychic test. MOSATOR: topoenergetic databanks of one component molten salts; thermally driven viscosity and electrical conductance.	F
2002	6	3	Editorial: Quo vadis Earth experiment? ISOCALT®: Report on metrological tests	F
2003	7	1	Editorial: Time – an instrument of the selfish thinking. 1 st NOTE: Homoeopathy: upon some efficient physical tests revealing structural modifications of water and aqueous solutions. I. Mixing experiments.	
2004	8	1	Metrological verification and calibration of thermometers using thermostats type ISOCALT® 21/70/2. Metrological verification and calibration of thermometers using thermostats type ISOCALT® 2.2R.	F
2004	8	2	Aspects of correct measurements of temperature. I. measurement of a fixed	F

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^{*)} F=free, AFI=ask for invoice.

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