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(Erratum)

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## GDF DATABANKS BULLETIN, VOL. 24, NO. 1, 2020 ISSN 1453 - 1674 Left-Right Bio-Balance: Calorimetric approach of human mental state I. Introductory principles and experimental details.

#### History

Calorimetry was my permanent obsession since 1969 when I begun scientific career. The first communication was about multimelting processes in two molded injection cylinders of polyethylene evidenced by an original adiabatic calorimeter built up by myself [1]. The strange results for me at that time opened a very rich field of other experimental and theoretical principles, most of them published and mentioned in this bulletin.

In July 2005 I and my wife had to move at our daughter in Sydney (Australia) in view to help her family. We met new people and by shaking hands I felt different temperatures. I purchased just from first days several brands of digital sport stopwatches for continuing my old project of HuPoTest, but I tried to check temperature of my hands as a function of time by using a digital thermometer and stopwatch. Certainly, I succeeded to check only one hand and the results showed to me that I urgently need a digital recorder for temperature of each hand as function of time. I have discovered shortly on internet the notion of data logger and found a distributor (lontek.com.au) just in my neighborhood. Michael Hampson (the owner) kindly lent to me for an undefined time Data Taker DT80 (18 bit) from a famous Australian producer which greatly helped me to establish the main experimental details for what I called the test Left-Right Bio-Balance (LR-BB). After 2-3 months I purchased my first data logger NI 6008 (12 bit) and subsequently Graphtec LG200 (16 bit) – this one currently used for more than 6 years up to 2013 for this test and other experiments as well. Most of experiments were carried out on my self by correlating LR-BB with HuPotest [2] and water freezing [3]. I performed also several series of experiments on friends and relatives mostly in Bucharest.

#### **Biological background**

Cardiac and respiratory rhythm and specific flow rates are in strong connection with the emotional state of an individual. These parameters define also his general health state substantiating the ancient idea that mental state governs the overall body health. Also, HuPoTest was proved to be very accessible and highly efficient test and training procedure as well for mental state [4]. Hands temperature and their time evolution both individually and differentially measured in standard conditions can be used to evaluate parameters defining important features of general health and mental state as well. LR-BB can be standardized as an accessible tool and procedure for individual self-evaluation and monitoring without medical help like commercial instruments for blood pressure and body temperature.

#### **Goals of this series**

The main aims of this series of notes are to reveal in clear and simplest manner the importance of this LR-BB test by selecting the most significant experimental results and parameters resulted by their retrieval.

#### **Experimental details**

Figure 1 shows the cross section from a temperature probe made from a good thermally conductive metal cylinder (here brass) containing three diodes symmetrically and identically distributed along it. There were four probe pairs (for left, L, and right, R, hand, respectively) with different external diameter of 6, 8, 10 and 12 mm, but all other dimensions the same. I experienced intensively and for long time diodes (especially 1N4148) as temperature sensors with stable and linear response over the temperature range of -20 to + 120  $^{0}$ C [5-9]. Each probe was marked and kept always for the same hand, namely L and R, respectively.

Figure 2 shows the schematics of measuring circuit.

The first series of measurements (for approximately 2 years) were performed with the probes not calibrated with the recorded temperatures in mV or V. Subsequently, I made their calibration in 10

points evenly distributed on the range of +10 to +50  $^{0}$ C by using both the disposition used also for NTC-thermistors [8] and the adiabatic calorimeter [9].

Table 1 gives the calibration parameters resulted by linear regression for each probe.

Table 1.Linear regression parameters obtained for each LR-BB probe by calibration in 10 points evenly distributed on the range of +10 to +50  $^{0}$ C. calibration equation: {TL, TR} ( $^{0}$ C) = slope\*{TL, TR} (V) + intercept ( $^{0}$ C)

probe		slope		0%	intercept	stdev	0%	correl
		oC	/V	70	oC		70	
6 mm	LEFT	7.099	0.04	0.56	29.56	0.38	1.29	0.9999
0 11111	RIGHT	7.056	0.03	0.37	30.13	0.25	0.83	0.99995
8 mm	LEFT	7.222	0.04	0.55	29.78	0.36	1.21	0.9999
8 IIIII	RIGHT	7.188	0.04	0.56	30.47	0.37	1.21	0.9998
10	LEFT	7.078	0.04	0.57	29.55	0.37	1.25	0.9999
mm	RIGHT	7.047	0.06	0.81	30.44	0.54	1.77	0.9998
12	LEFT	7.375	0.09	1.27	29.02	0.82	2.83	0.9994
mm	RIGHT	7.331	0.08	1.09	30.04	0.79	2.63	0.9998

average	7.17	29.87
stdev	0.13	0.49
%	1.8	1.7

### Main steps of the experimental procedure:

- the room temperature must be close to +22 <sup>0</sup>C, relative humidity of 65 % and free of any kind of perturbing stimuli (see conditions imposed for HuPoTest [4]);

- preparation of the measuring disposition. The probes are suspended in air on a rack; data logger is set on  $\pm$  1V, sampling rate 1S/s or 1S/2s, overall measuring time 7 minutes; always I used a digital stopwatch.

- conditioning of the person under test (PUT): he must stay in a comfortable position (preferably in Lotus posture) or sited on a chair with the fists strutted on knees and elbows shifted from the body. Hands must be clean, not wet, frees of any cosmetics and close to the probes easy to be caught. PUT must wear a T-shirt, light pants and bare feet. A period of relaxation is necessary before measurements.

- probes temperature measured in V on data logger must reach constant values (base line) very close for both L and R.

- PUT starts simultaneously stopwatch and data logger and after 20 s he catches in his hands L and R probes, respectively, so fists must be tightly and completely closed around the probes, but relaxed during overall measurement.

- after 7 minutes on stopwatch, PUT stops data logger recording, stopwatch and put back probes on the rack.

- data recorded on data logger must be saved on a USB memory stick or directly transferred on computer in view to be retrieved.

- each series of data must be marked by the PUT name, body weight, date and hour of the day.

IMPORTANT: In view to evidence the evolution of overall health state, its subtle variations and to identify the origin of organic and/or mental processes, it is compulsory to keep the same conditions during all measurements.

#### **Preliminary results**

Figure 3 shows the evolution of TL and TR in  ${}^{0}$ C for probe pairs of 6 and 12 mm and in Figures 4 and 5 separately the same variations, respectively, by considering the real start of measurements by subtracting both the 20 s of base line and the initial/room temperature (Tin). These time evolutions must be finally retrieved and are considered by topoenergetic working principles as resulted by imposed standard experimental conditions [10]. These time evolutions have sigmoidal shape so called *direct time conversion* having the maximum variation rate at t=0.

Figures 6 and 7 show the variation of half time, t1/2 for all four probe pairs vs probe volume for two representative sigmoidal equations well known in library of functions used for non-linear fit. Half time is one of the most important parameters considered in all experiments following similar standard conditions. It is important to note that in both representations a linear relationship exists as

$$LOG(t1/2) = N*LOG(vp) + M$$
(1)

where parameters (N, M) known as the *ontogeny of PUT in the defined standard experimental conditions* [2, 10]. Experiments in the same standard conditions on many PUT or for the same PUT will define higher phylogenies which can be correlated with organic and/or mental conditions.

Table 2. My ontogeny parameters (equation (1)) for the two fitted functions and the four measuring probe pairs (experiments on 01-09-2010).

	L		R		
	Ν	М	Ν	М	
Sigmoidal-1	$0.827 \pm 0.08$	$-2.83 \pm 0.7$	$0.783 \pm 0.04$	$-2.46 \pm 0.3$	
Logistic	$0.586 \pm 0.06$	$-1.08 \pm 0.5$	$0.551 \pm 0.03$	$-0.787 \pm 0.2$	

Logistic equation gives little more accurate representation of experimental data.

Figure 8 shows the linear relationship M=n1\*N+m1 for all series of measurements so revealing the same nature of associated processes. It results the same significance of parameters like HuPoTest measurements revealed the composite structure of PUT mind [4].

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Figure 1. Cross section in standard LR-BB sensor (dimensions in mm).



Figure 2. Schematics of LR-BB measuring system.



Figure 6.

Figure 7.

Figure 8.

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## Chapter 1

## Foreword

Miguel de Cervantes Saavedras: "Experience is the mother of all sciences"

My deep concern is that the present book will not affect in any way human society, although I tried to point out arguments about the next imminent nuclear conflict mainly caused by continuous and accelerated degradation of human mind in direct correlation with uncontrolled growth of population. Survivors will be only ones with properly prepared minds. These two facts are striking evidences for any one, no matter education and place on the planet Earth. The solution I propose is to permanently testing and improving our mind. Its name is HuPoTest I experienced and developed continuously for more than 50 years. Human mind is our "crazy horse" which no individual succeed to completely master during entire life. The main problem is not that there are bad guys and good guys, but it is practically impossible to know them. The only solution is to take care of our own mind. After a long and intense experience face-to-face on a large variety of individuals with HuPoTest, I established that there are 4 main categories: (i) dominating; (ii) dominated; (iii) independent and (iv) not able to perform HuPoTest. The results are not available for ever, because they can transform instantly between them (flip-flop character). The first two are dependent each other, permanently involved in conflicts up to crime and suicide. The independent ones avoid any conflict and live in honest conditions. People not able to perform HuPoTest have their minds dominated by destructive emotions. Human mind is in permanent activity, so that conscious activity is perturbed by emotions. This is the main point of the present book: to reveal the composite structure of human mind by the existence of the active component involved in coherent thinking and an inert one perturbing the conscious activity. I invite any one who will decide to try HuPoTest to contact me for help without any obligation.

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## Previous issues of GDF DATABANKS BULLETIN

Year	VOL	NO	Content (titles)	\$*)			
			Editorial: Databanks – the compulsory language.				
	1		LOGKOW – a Databank of evaluated octanol-water partition coefficients				
1997		1	(James Sangster).	F			
1777		-	Solubility behavior introducing tonoenergetic 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			
			Editorial: socio-psychological implications in creation and utilization of a				
			databank (Joan-Bradu Jamandescu):				
1000			Behavior in vapor-liquid equilibria (VLE): L Structural aspects:	-			
1998	2	1	Behavior in vapor-liquid equilibria: II. Several structures in databanks:	F			
			Symposium on VDC-4 held on 30 October 1997 at Lubrifin-SA. Brasov				
			(Romania).				
1998	2	2	Practical course of metrology (Romanian)	AFI			
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1008	2	4	VAPORSAT-01: Databanks of thermally driven VLE. The first 100 simple				
1998	Z	4	molecules	AFI			
			Editorial: New trends in material science: nanostructures (Dan Donescu)				
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			VAPORSAT: Databanks of vapor-liquid separation kinetics.				
1999	3	2	Discussions on Applied Metrology	AFI			
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			Some comments on uncertainty: global budget and DFT analysis.	l			
			October 1000				
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			Topoenergetic aspects of amorphous-crystalline coupling				
			I. Composite behavior of water and aqueous solutions (paper presented at				
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			2001).				
			Events: Nanotubes and nanostructures 2000.School and workshop, 24				
			September – 4 October 2000, Cagliari, Italy.				
			Editorial: Viscosity – a symptomatic problem of actual metrology.				
			Visco-Dens Calorimeter: general features on density and viscosity				
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			MOSATOR: Topoenergetic databanks on molten salts properties driven by				
			temperature and composition.				
2002	6	1	MOSATOR-01: Topoenergetic databanks for one component molten salts;	AFI			
			Editorial: HuDoTast Operator calibration or temporal scale psychic test				
2002	6	2	MOSATOP: tonoenergetic databanks of one component moltan solter.	Б			
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			Editorial: Ouo vadis Earth experiment?				
2002	6	3	ISOCALT® : Report on metrological tests	F			
			Editorial: Time – an instrument of the selfish thinking.				
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2003	/	1	structural modifications of water and aqueous solutions.	Р			
			I. Mixing experiments.				
			Metrological verification and calibration of thermometers using thermostats				
2004	8	1	type ISOCALT® 21/70/2.	F			
2004	0		Metrological verification and calibration of thermometers using thermostats				
			type ISOCALT® 2.2R.				
0004	0		Aspects of correct measurements of temperature. I. measurement of a fixed	F			
2004	8	2	point according to ITS-90.	F			
			Physics and Homoeopathy: some physical requirements for homoeopathic				

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			practice.(Plenary lecture at the 19 <sup>th</sup> SRH National Congress, 21-22 September	
			2004, Bucharest, Romania)	
			AWARD for ISOCALT® at the International Fair TIB-2004, October 2004,	
<b>2</b> 00 <b>5</b>	0		Bucharest. ISOCALT® 3/70/21 was awarded in a selection of 20 products by a	
2005	9	1	commission of experts from the Polytechnic University of Bucharest.	F
			Upon some aspects of temperature measurements.	
			(12 <sup>ad</sup> International Metrology Congress, 20-23 June 2005, Lyon, France)	
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2005	9	2	National Society of Measurements (NSM).	F
			Important warning for T-calibrator users: MSA has chose metrology well	
		1	calibrators from Fluke (Hart Scientific).	
			Universal representation of Cancer Diseases. I. First sight on NSW-2003	
2005	0		report.	
2005	9	3	Universal representation of Cancer Diseases. 2. UK cancer registrations on	F
			1999-2002.	
2006	10	1	Vital Potential can estimate our predisposition for cancer diseases.	
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			MT Introduction to Montal Technology	
2007	11	2	MI – Introduction to Mental Technology	Б
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			TRESISTOR® data hanks of materials with thermally driven electric and	
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2017	21	9	HuPoTest – preliminary tests on PUT response reaction	Г
2018	22	1	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.	F
2010	22	1	IX. Measurements on 1 <sup>st</sup> June 2017- 9 <sup>th</sup> January 2018.	1
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.	
			X. Further estimations on 1 <sup>st</sup> June 2017- 9 <sup>ut</sup> January 2018.	
			HuPoTest – new tests on PUT response reaction	-
2018	22	2	HuPoTest – read this first before use it (updated)	F
			HuPoTest – an efficient test and training procedure for mental and health state	
			(abstract sent to the International Congress of Royal College of Psychiatrics -	
			2018) Estimation of alabel warming by differential colorimatric procedure	
2018	22	3	Estimation of global warming by differential caloffinetric procedure.	F
			Definition and assignment of some global uncertainties of measurements. 0th	
			International Metrology Congress Bordeaux France 18-21 October 1999 pp	
			353-356	
2018	22	4	HuPoTest - errors originating from software	F
			HuPoTest – seven week mental training during Ortodox Easter Fasting.	
			I. New rules for more realistic and efficient measurements.	
2010	22	5	HuPoTest – seven week mental training during Ortodox Easter Fasting.	Б
2018	22	5	II. Statistic features of particular data and their significance	Г
2019	22	6	HuPoTest – seven week mental training during Ortodox Easter Fasting.	Б
2018	22	0	III. Personal mind structure and pattern during training	Г
			HuPoTest – up to date history	
2010	22	1	HuPoTest – operating instructions	F
2019	23	1	HuPoTest – significance of calculated parameters	1.
			HuPoTest – composite structure of mind	
2019	23	2	Estimation of global warming by differential calorimetric procedure.	F
2017	25	-	II. Experimental results over 2018	· ·

			1551 1455 - 1674	
2019	23	3	Composite structure of human mind. HuPoTest results on 5 weeks of fasting before Christmas 2018	F
2019	23	4	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. XI. Results obtained over 2018. Book launch: Composite Structure of Human Mind	F
2019	23	5	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. XII. New results obtained over 2018. Book launch: Composite Structure of Human Mind	F
2019	23	6	Composite structure of human mind. HuPoTest results on 7 weeks of fasting before Orthodox Easter 2019 Book launch: Composite Structure of Human Mind	F
2019	23	7	Eurovision song contest, Tel Aviv, Israel, 18 May 2019 Book launch: Composite Structure of Human Mind	F
2019	23	8	HuPoTest – 4 weeks of self evaluation, training and additional instructions Book launch: Composite Structure of Human Mind	F
2019	23	9	Composite human mind and composite human society (43rd Congress of American Romanian Academy of Arts and Sciences, ASILOMAR Conference Grounds, Pacific Grove, CA, USA, 15-17 November 2019) Book launch: Composite Structure of Human Mind	F

\*) F=free, AFI=ask for invoice.

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## ERRATUM:

VOL.	NO.	place	CORRECT
15	2	Figure 5	P-
15	3	page 5, row 7 down-to-up	x = 0.2
22	3	Figures 4-6	Values of dTc and exchanged heat must be divided by 10
22	6	Figure 4	-N^2/M values are negative;
23	1	Figure 5	See Figure 8 and comments in issue 23(3)
23	1	HuPoTest-significance of calculated parameters	(yo, $\Delta b$ )<0, $\Delta a$ >0: slow reaction (yo, $\Delta b$ )>0, $\Delta a$ <0: impulsive reaction

I encourage readers to advice me any observation.



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