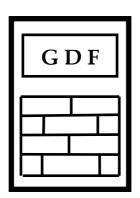
GDF DATA BANKS BULLETIN



VOL. 25, No. 5

Bucharest, May 2021

ROMANIA

Content

no. pages

	1 0
Isothermal gradient calorimeter. I. Basic principles	5
Water – review of some particular properties	2
Book launch: Composite Structure of Human Mind	3
About the author	1
Previous issues of GDF DATABANKS BULLETIN	5

(Erratum) 16 + 3 pages

any reproduction from

GDF DATABANKS BULLETIN

in other documents and/or publications needs the written agreement of the author All correspondence at: gdf.dragan@gmail.com



This Bulletin is registered at:

- Biblioteca Nationala a Romaniei, Bucharest and
- National Library of Australia, Canberra

www.gdfdatabanks.ro

Isothermal gradient calorimeter. I. Basic principles.

Calorimetry is the analytic system based on measurement of heat associated to a transforming process. Due the fact that any transformation process is associated with a caloric effect, calorimetry has a universal value among analytic techniques. In addition, calorimetry evidences the so-called polarity of transforming processes, namely their endothermal (endo) or exothermal (exo) property. The time-evolution of the heat absorbed (endo) and/or released (exo) by the specimen under test, reveals the kinetics of transforming process essentially characterized by its nature and amplitude. There are a lot of calorimetric systems most of them adapted to particular transforming processes, but they are classified in two important categories: isothermal and non-isothermal depending on the imposed temperature regime to the specimen under test. Adiabatic calorimetry is a particular system belonging to the non-isothermal ones [1,2]. In general the overall external surface of the tested specimen is considered as being always having the same temperature in every point of it in all calorimetric systems. This surface is called as equipotential like in electric circuits because temperature is considered also a thermodynamic potential like electric potential. The shape and dimensions of specimen holder is adapted for each particular case and designed in view to realize this equipotential condition.

Isothermal Gradient Calorimeter (IGC) intentionally violates this rule in view to evidence the variation of process kinetics connected to non-uniformity in structure of the specimen resulted in particular operating and/or processing conditions imposed to the tested sample. Concrete mixtures were the main examples imposing IGC as analytic technique because during their hardening as a result of cement hydration some of ingredients separate in the gravitational field, so the overall kinetics differs more or less along the specimen height and this can be directly correlated with the final structure and properties. It results that IGC can be used as an important technique for optimization sample structure, processing and/or operating conditions of the initial sample receipt/composition.

Thorough studies carried out also by isothermal calorimetry on cement hydration evidenced the nature of cement and water [3], but these are not completely useful for practical purposes. IGC can reproduce the operating and processing conditions of the concrete mixtures.

Cone trunk and cone as specimen shapes are considered in the following able to evidence the differences of process kinetics along their height.

Figure 1 shows the main geometry parameters defining the final dimensions of the cone trunk of specimen holder.

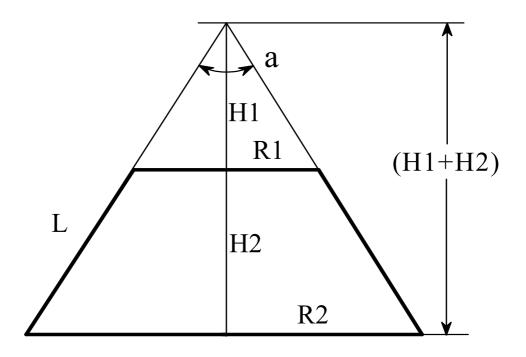
Figure 2 shows the main geometry parameters of the initial plane sheet of metal for design of cone trunk.

Figure 3 shows the particular shape, geometry parameters and dimensions for complete cone as specimen holder with the top angle of 60 degrees.

Figure 4 shows the main assembly of the specimen holder described in Figure 3. There are marked the eight positions of calorimetric sensors along the height of the specimens denoted as A to H.

References

- [1] G. Dragan, Adiabatic calorimetry–summary description of the demo prototype, GDF Databanks. Bull., 12(3), 2008.
- [2] G. Dragan, Adiabatic calorimeter as high accuracy T-calibrator, GDF Databanks. Bull., 18(1), 2014.
- [3] G. Dragan, Studies on cement hydration by High Resolution Mixing Calorimetry (HRMC), GDF Databanks. Bull., 14(1), 2010.



V2 = V-V1

$$V2 = (Pi/3)*(R2*(H1+H2)^2-R1*H1^2) =$$

$$= (Pi/3)*(H2^2)*(R2^3-R1^3)/(R2-R1) =$$

$$= (Pi/3)*(H2^2)*(R2^2+R1*R2+R1^2)$$

Figure 1. Cross section of the original cone and the resulted cone trunk as the general specimen holder of Isothermal Gradient Calorimeter.

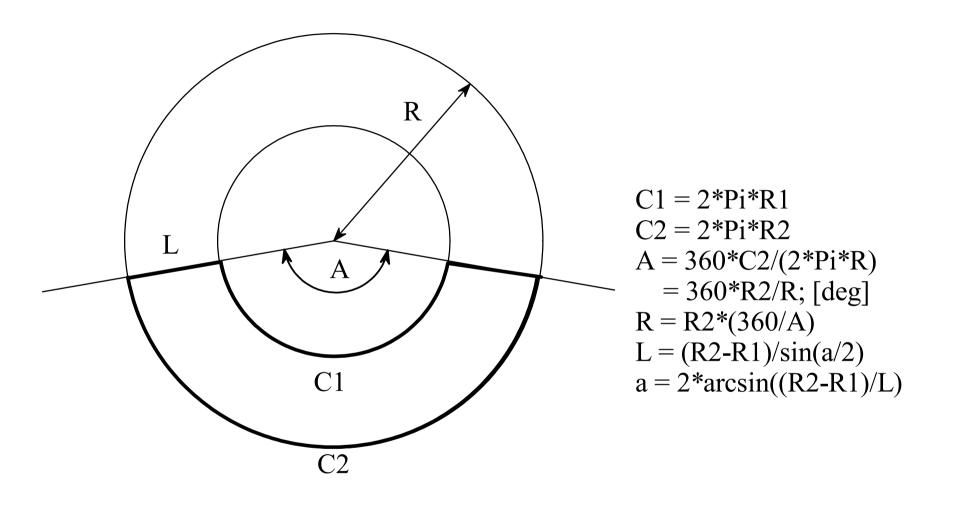
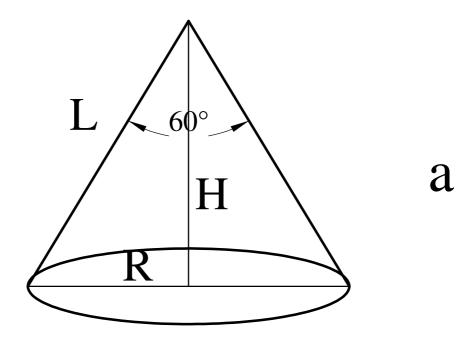


Figure 2. Planar design of cone trunk (see Figure 1 for symbol significances).



L = H/cos(30 deg) = 1.155*HH = 400 mm, L = 462 mm R = L*cos(60 deg) = L/2 = 231 mm Volume = $3.14*(R^2)*H/3 =$ = $3.14*(tan(30 deg))^2*H^3 = 22.34$ liters

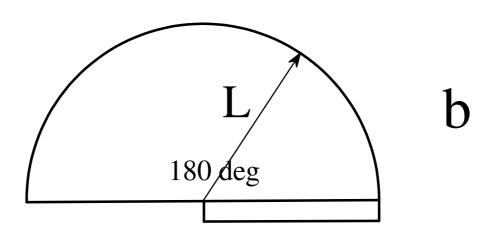


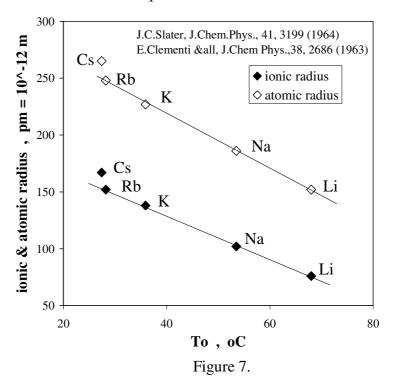
Figure 3. Particular dimensions of cone specimen holder (a) and its initial plane design on the sheet of metal (b).



Figure 4. Main assembly of particular cone specimen holder. Details in Figure 3 and described in text.

Water – review of some particular properties

Thorough studies on water and aqueous solutions revealed their composite structure even in liquid state [1], namely the co-existence of amorphous phase responsible for solution processes strongly connected with a crystalline phase remaining unaffected. The linkage of the two phases was established to be similar as in organic polymers involving an inductive element responsible for mutual coupling [2] and with human mind [3]. Several original analytical techniques were used in these studies, but calorimetric systems brought basic structural information, especially high resolution mixing calorimetry [4]. Calorimetry appears as a universal measuring system because all transformation processes are associated with heat effects. In particular, adiabatic calorimetry evidences important structural data for equilibrium and non-equilibrium (phase transitions) conditions. Unfortunately, experimental difficulties limit its applications and "easy going" attitude is more and more evidenced in actual scientific communities. Specific heat of liquid water (Figure 1) reveals a strange dependence on temperature with minimum values around 34.5 °C corresponding to the human body temperature and for almost all mammalians. At first sight specific heat is proportional with degrees of freedom of kinetic units, but it is pretty difficult to make this correlation taking into consideration water composite structure. It would be useful to compare the data banks of Cp(T) for different aqueous solutions of electrolytes and their analysis according to the topoenergetic principles. For the moment, solubility data of a series of relative electrolytes in water gathered in the IUPAC series [5] are useful. Figures 2-6 show selections of five alkali chlorides from which the specific transition temperatures To can be estimated. This transition is connected to the structuring effect of alkali metals in water [1]. Figure 7 shows the linear dependence of To on their ionic and atomic radius. These results must be further analyzed by more accurate experiments in view to establish exact structural details of water and aqueous solutions.



References

- [1] G. Dragan, Comparative study on molecular associations in solid and liquid phases of aqueous solutions. III. Topoenergetic considerations on electric conductivity in electrolyte solutions, Acta Polymerica, 38(8), 467-470 (1987) and papers cited therein.
- [2] G. Dragan, Amorphous-crystalline coupling in polyethylene. IX. Study of the transforming branches by step calorimetric system, Rev. Roumaine Chim., 26(9,10), 1315-1326 (1981).
- [3] G. Dragan, Evidence of human mental field by ac-electric conductivity in electrolyte solutions. 1. Bio-energy, GDF Databanks Bull., 19 (6), 2015, and papers cited therein.
- [4] G. Dragan, High resolution mixing calorimetry redivivus. IV. Specific heat of crystalline phase of water, GDF Databanks Bull., 19 (7), 2015, and papers cited therein.
- [5] IUPAC Solubiliy Data Series, vol.47, J.W.Lorimer editor-in-chief, Pergamon Press, 1991.

GDF DATABANKS KS BULLETIN, VOL. 25, NO. 5, 2021 ISSN 1453 - 1674

https://www.lap-publishing.com



https://www.morebooks.de/store/gb/book/composite-structure-of-human-mind/isbn/978-613-9-45072-5

Table of Contents

	Abbreviations and symbols	vi
Chapter 1	Introduction	1
Chapter 2	Composite structure of transforming systems	2
Chapter 3	Upon some features of humankind evolution	8
	3.1 Evolution of life on Earth	8
	3.2 Evolution of individual human life	9
	3.3 Evolution of human society on Earth	11
Chapter 4	HuPoTest – up to date history	14
Chapter 5	HuPoTest – operating instructions	17
	5.1. Proper preparation of the person under test	17
	5.2. Selection of the right standard stopwatch and performing	
	the basic test	17
	5.3. Calculation of parameters defining the mental state	19
	5.4. Management of data base	20
Chapter 6	Metrology of time	21
	6.1. Basic of metrology	21
	6.2. HuPoTest vs metrology	23
	6.3. Concluding remarks	24
Chapter 7	HuPoTest – significance of calculated parameters	25
	7.1 parameters from classical statistics	26
	7.2 original parameters obtained by simple math formulas	26
	7.3 original parameters obtained by professional math programs	28
Chapter 8	HuPoTest – important relationships	30
	8.1 Stopwatch B	30
	8.2 Stopwatch E	36
Chapter 9	HuPoTest – composite structure of human mind	45
	References	51
	About the author	55

Gheorghe DRAGAN - Composite structure of human mind

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.

Bucharest, February 2019

About the author:

First name	Gheorghe		
Last name	DRAGAN		
Born 1 September 1945, Ploiesti, Prahova (Romania)			
ORCID	0000-0002-5787-9779		
	Faculty of Physics, University of Bucharest, Romania		
Studies	(1963-1968)		
Studies	Ph.D.in Physics, University of Bucharest, Romania		
	(1980)		
	• Head of material testing laboratory, ICECHIM,		
	Polymer Department, Bucharest (1969-1979);		
	• Initiator and leader of the research project on new		
	forms and sources of energy; ICECHIM, Center of		
	Physical Chemistry (1979-1988);		
	 Head of laboratory of analytical devices and 		
experience	measuring instruments, AMCO-SA,		
	Bucharest (1988-1993);		
	• Technical manager of GDF-DATA BANKS,		
	Bucharest (1993-2008);		
	• Expert metrologist, Romanian Bureau of Legal		
	Metrology, Bucharest, Romania (1997-2000).		
	• >100 scientific papers		
1.1.	• >70 scientific communications		
publications	• 17 patents		
	• 6 books		
A 1.1	all correspondence by e-mail:		
Address:	gdf.dragan@gmail.com		
L	1		

Previous issues of GDF DATABANKS BULLETIN

Year	VOL	NO	Content (titles)	\$*)
			Editorial: Databanks – the compulsory language.	. /
			LOGKOW – a Databank of evaluated octanol-water partition coefficients	
1997	1	1	(James Sangster).	F
			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)	
			Editorial: socio-psychological implications in creation and utilization of a	
			databank (Ioan-Bradu Iamandescu);	
1998	2	1	Behavior in vapor-liquid equilibria (VLE): I. Structural aspects;	F
1990	2	1	Behavior in vapor-liquid equilibria: II. Several structures in databanks;	Г
			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	AFI
1998	2	4	molecules	АГІ
			Editorial: New trends in material science: nanostructures (Dan Donescu)	
1999	3	1	DIFFUTOR: Databanks of diffusion kinetics.	F
			VAPORSAT: Databanks of vapor-liquid separation kinetics.	
1999	3	2	Discussions on Applied Metrology	AFI
			Editorial: Laboratory accreditation and inter-laboratory comparisons (Virgil	
			Badescu)	
			Doctoral Theses – important data banks.	
2000	4	1	GDF intends to open new series of experiments on thermo-physical properties.	F
			Some comments on uncertainty: global budget and DFT analysis.	
			Events: The 9 th International Metrology Congress, Bordeaux, France, 18-21	
			October 1999.	
2000	4	2	Measurement and Calibration.	AFI
			Editorial: Metrology ensures moral and technological progress.	
			Topoenergetic aspects of amorphous-crystalline coupling.	
			I. Composite behavior of water and aqueous solutions (paper presented at	
2001	5	1	nanotubes and Nanostructures 2001, LNF, Frascati, Rome Italy, 17-27 October	F
			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	
2001	5	5 2	measurements.	F
			New vision on the calibration of thermometers: ISOCALT®	
			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
			thermally driven viscosity and electrical conductance.	
2002	6	2	Editorial: HuPoTest - Operator calibration or temporal scale psychic test.	F
2002	6	2	MOSATOR: topoenergetic databanks of one component molten salts; thermally driven viscosity and electrical conductance.	Г
			·	
2002	6	3	Editorial: Quo vadis Earth experiment?	F
			ISOCALT®: Report on metrological tests	
			Editorial: Time – an instrument of the selfish thinking. 1 st NOTE: Homoeopathy: upon some efficient physical tests revealing	
2003	7	1	structural modifications of water and aqueous solutions.	F
			•	
			I. Mixing experiments. Metrological verification and calibration of thermometers using thermostats	<u> </u>
	8	8 1	type ISOCALT® 21/70/2.	
2004			Metrological verification and calibration of thermometers using thermostats	F
			type ISOCALT® 2.2R.	
			Aspects of correct measurements of temperature. I. measurement of a fixed	
2004	8	2	point according to ITS-90.	F
200 4	o		Physics and Homoeopathy: some physical requirements for homoeopathic	1.
			r nystes and nonnocopatiny, some physical requirements for nonnocopatine	

			15511 1455 - 1074			
			practice.(Plenary lecture at the 19 th SRH National Congress, 21-22 September 2004, Bucharest, Romania)			
			AWARD for ISOCALT® at the International Fair TIB-2004, October 2004,			
			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		
2003		1	Upon some aspects of temperature measurements.	1		
			(12 th International Metrology Congress, 20-23 June 2005, Lyon, France)			
			A new technique for temperature measurement and calibration.			
			National Society of Measurements (NSM).			
2005	9	2	Important warning for T-calibrator users: MSA has chose metrology well	F		
			calibrators from Fluke (Hart Scientific).			
			Universal representation of Cancer Diseases. 1. First sight on NSW-2003			
			report.			
2005	9	3	Universal representation of Cancer Diseases. 2. UK cancer registrations on	F		
2003			1999-2002.	1		
			Vital Potential can estimate our predisposition for cancer diseases.			
2006	10	1	NTC – thermistors -1	AFI		
2000	10	1	HuPoTest - 40 years of continuous research	7 11 1		
			Basic rules for preventing and vanishing cancer diseases			
2007	11	1	Climate change = change of mentality	F		
			Hot nuclear fusion – a project of actual mentality			
			MT – Introduction to Mental Technology			
2007	11	2	HuPoTest – general procedure, assignments of results, specimen of complete	F		
		_	test, order and obtain your complete HuPoTest report			
			TRESISTOR© - data banks of materials with thermally driven electric and			
2007	11	3	magnetic properties	AFI		
			TRESISTOR© - NTC -1 - data bank of NTC thermistors			
2008	12	1	Australian population: life, death and cancer	F		
2008	12	2	Pattern of Cancer Diseases	F		
2008	12	3	Adiabatic calorimetry – summary description of the demo prototype			
			Flight QF 30 and even more			
2008	12	4	Temperature calibration of NTC-thermistors. 1.Preliminary	F		
			results.			
			Proposal for interlaboratory comparisons.			
2009	13	1	Calibration of NTC-thermistors (The 14 th International Metrology Congress,	F		
			Paris, France, 22-25 June 2009).			
2009	13	2	Sudoku – un algoritm de rezolvare.	AFI		
2009	13		(Sudoku – an algorithm for solution).	АГІ		
2009	13	3	Cancer and Diabetes – as social diseases.	F		
2009	13	3	(Open letter to all whom it may concern).	Г		
2010	14	1	Studies on cement hydration by High Resolution Mixing Calorimetry (HRMC).	F		
2010	14	2	Measuring tools for subtle potentials;	F		
2010	14		pas-LED: an efficient measuring tool for subtle potentials.	1.		
2010	14	3	Upon some features of cancer in Australia: 1982 – 2006.	F		
2010	14	4	Cancer as an erosion process in human society.	F		
2010	14	5	Cancer erosion in Australian human society: 1982 – 2006.	F		
2010	14	6	Cancer erosion in German human society:1980-2008.	F		
2011	15	1	Procedures and devices for energy and water saving. (I) (in Romanian).	F		
2011	15	2	Structural and relativistic aspects in transforming systems.	F		
2011	13		I. Arrhenius and Universal representations of thermally driven processes.	1.		
2011	15	3	Topoenergetic aspects of water structuring as revealed by ac electric	F		
			conductivity.	F		
2011	15	4	Topoenergetic aspects of human body			
2011	15	5	HuPoTest: four month study of a case			
2012	16	1	DTA study of water freezing.	F		
2012	10	1	I. Upon some aspects of repeatability.	1.		
2012	16	2	DTA study of water freezing.	F		
2012	10		II. Statistical features on one week of experiments.	Г		
2012	16	3	DTA study of water freezing.	F		
2012	10	3	III. New facts on daily mental field.	Г		
2012	16	4	Mental field and state of health.	F		
2012	10		Câmpul mental și starea de sănătate.	1.		
		•				

		•	ISSN 1453 - 1674			
2013	17	1	DTA study of water freezing.	F		
2013	17	2	IV. New facts on energy circuits. DTA study of water freezing. V. Effect of a mental antenna	F		
2013	AC electric conductivity of untreated and mentally treated electrolyte aqueous					
2013	17	7 3 solutions.		F		
2013	17	4	TA study of water freezing. VI. Mental field in a working day.			
2013	17	5	DTA study of water freezing. VII. More statistical features on one week of	F		
		3	experiments.			
2013	17	6	HuPoTest: New measurements and results	F		
2013	17	7	Time as unique base quantity. (Proceedings of the 16th International Congress	F		
		0	of Metrology, 7-10 October 2013, Paris, France).	- Б		
2013	17	8	Eurovision song contest. 1.Basic social aspects Mental field-water interaction as evidenced by Isothermal Convection Flow	F		
2013	17	9		F		
2013	17	10	Procedure for defining standard liquids for viscosity based on topoenergetic principles. Topological aspects of flow and deformation in polymer composites, The VIII-th International Congress on Rheology, 1-5 September 1980, Naples, Italy, pp. 375-376. Universal representation of flow behavior based on topoenergetic principles, The IX-th International Congress on Rheology, 8-13 October 1984, Accapulco, Gro. Mexico, pp.369-376. Comments on "Universal representation of flow behavior based on topoenergetic principles", The IX-th International Congress on Rheology, 8-13 October 1984, Accapulco, Gro. Mexico, pp. 369-376. Open letter to BRML and INM.			
2014	18	1	Adiabatic calorimeter as high accuracy T-calibrator	F		
2014	18	2	Mental field-water interaction as evidenced by Isothermal Convection Flow	F		
2014	10		Calorimetry (ICFC). II. Effect of convection flow power.	1		
2014	18	3	Eurovision song contest. II. Copenhagen, Denmark 2014	F		
			and some more features on social mentality. The 38 th Congress of American-Romanian Academy (ARA) of Arts and			
2014	18	4	Sciences, 23-27 July 2014, Pasadena, California, USA	F		
2015	10	1	Gold versus money. 1. An overview on main financial figures of world	F		
2015	19	1	countries.			
2015	19	2	Gold versus money. 2. Rich, middle and poor countries.	F		
2015	19	3	High Resolution Mixing Calorimetry (HRMC) redivivus.	F		
			General presentation and heat capacity measurements. High Peopletian Mixing Calorimetry (HDMC) additions. High Peopletian Mixing Calorimetry (HDMC) additions.			
2015	19	4	High Resolution Mixing Calorimetry (HRMC) redivivus. 2. Structure developing of aqueous solutions by mixing experiments.	F		
2015	19	5	High Resolution Mixing Calorimetry (HRMC) redivivus. 3. Calibration	F		
			Evidence of human mental field by ac-electric conductivity in electrolyte			
2015	19	6	solutions. 1. Bio-energy.	F		
2015	19	7	High resolution mixing calorimetry redivivus.IV. Specific heat of crystalline phase of water. WPA2015: International Congress of World Psychiatric Association, Primary care mental health: innovation and transdisciplinarity, Bucharest, 24-27 June 2015, ROMANIA	F		
2016	20	1	Quo vadis population growth on planet Earth: more details	F		
			Structural aspects revealed by topoenergetic view on ac electric conductivity in	F		
2016	20	2	HCl/(water + organic solvent)	Г		
2016	20	3	Stability of amorphous-crystalline coupling in electrolyte aqueous solutions in	F		
			relation to interaction with bio-fields			
2016	20	4	Efficient, simple and cheap outdoor extension of exhausting system using Bernoulli and thermal convection effects applied for air forced boilers on	F		
2010	20	+	natural gas	1.		
2016	20	5	Good quality home made soap in high efficient conditions	F		
			Interaction of quartz crystals with bio-fields.			
2016	20	6	I. Preliminary experiments on commercial quartz oscillators.	F		
2016	20	7	Interaction of quartz crystals with bio-fields.	F		
_010			II. Differential measurements on pairs of commercial quartz oscillators.			

Previous issues of GDF DATABANKS BULLETIN, (continued)

2016	20	8	Interaction of quartz crystals with bio-fields.	F
	III. Quartz selection and their significances.			
2016	20	9	HuPoTest – new attempt for self-evaluation and improvement of mental state	F
2017	21	1	Interaction of quartz crystals with bio-fields. IV. Rough estimation of reproducibility	F
2017	2017 21 2		Interaction of quartz crystals with bio-fields.	F
2017	V. Closer look on quantitative estimations			1.
2017	21	3	Interaction of quartz crystals with bio-fields. VI. Influence of Moon phases	F
2017	21	4	HuPoTest – 50 years of continuous research and attempts to make it as efficient self-evaluation and improving procedure for mental state HuPoTest – read this first Message to the organizers of the snn2016 Conference (http://snn2016.snn.ro/) and to all whom it may concern HuPoTest – an efficient test and training procedure for mental and health state (Abstract for World Congress of Mental Health, New Dehli, INDIA, November 2-5, 2017) Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. VII. Dielectrics with high oriented crystalline structure.	F
2017	21	5	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. VIII. Dielectrics with high oriented crystalline structure.	F
			HuPoTest – data base correlations revealing mental pattern. Upon some features of global economic structure	
2017	21	6		F
2017	21	7	Eurovision song contest 2017 HuPoTest – proper training and creation of simple database in view to evaluate mental improvement	
			HuPoTest – project for the complete software available for any individual user	
2017	21	8	Global warming facts Topoenergetic structure of trees ramification	F
2017	21	9	IuPoTest – simple Matlab software for time measurements IuPoTest – preliminary tests on PUT response reaction	
2018	22	1	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. IX. Measurements on 1 st June 2017- 9 th January 2018.	F
2018	22	2	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. X. Further estimations on 1 st June 2017- 9 th January 2018. HuPoTest – new tests on PUT response reaction HuPoTest – read this first before use it (updated) HuPoTest – an efficient test and training procedure for mental and health state (abstract sent to the International Congress of Royal College of Psychiatrics - 2018)	
2018	22	3	Estimation of global warming by differential calorimetric procedure.	F
2018	22	4	I. Experimental principles, preliminary results and their significances. Definition and assignment of some global uncertainties of measurements, 9th International Metrology Congress, Bordeaux, France, 18-21 October 1999, pp. 353-356. HuPoTest - errors originating from software HuPoTest - seven week mental training during Ortodox Easter Fasting. I. New rules for more realistic and efficient measurements.	
2018	22	5	HuPoTest – seven week mental training during Ortodox Easter Fasting. II. Statistic features of particular data and their significance	F
2018	22	6	HuPoTest – seven week mental training during Ortodox Easter Fasting. III. Personal mind structure and pattern during training	
2019	23	1	HuPoTest – up to date history HuPoTest – operating instructions HuPoTest – significance of calculated parameters HuPoTest – composite structure of mind	
2019	23	2	Estimation of global warming by differential calorimetric procedure. II. Experimental results over 2018	

			15511 1155 1071		
2019	23	3	Composite structure of human mind. HuPoTest results on 5 weeks of fasting before Christmas 2018	F	
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.		
2019	23	4	XI. Results obtained over 2018.	F	
			Book launch: Composite Structure of Human Mind	-	
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.		
2019	23	5	XII. New results obtained over 2018.	F	
2017	23		Book launch: Composite Structure of Human Mind	•	
			Composite structure of human mind. HuPoTest results on 7 weeks of fasting		
2019	23	6	before Orthodox Easter 2019	F	
2017			Book launch: Composite Structure of Human Mind	•	
2010	22	7	Eurovision song contest, Tel Aviv, Israel, 18 May 2019	F	
2019	23	/	Book launch: Composite Structure of Human Mind	Г	
2010	22	8	HuPoTest – 4 weeks of self evaluation, training and additional instructions	Б	
2019	23	8	Book launch: Composite Structure of Human Mind	F	
			Composite human mind and composite human society		
			(43rd Congress of American Romanian Academy of Arts and Sciences,		
2019	23	9	ASILOMAR Conference Grounds, Pacific Grove, CA, USA, 15-17 November	F	
			2019)		
			Book launch: Composite Structure of Human Mind		
			Left-Right Bio-Balance: Calorimetric approach of human mental state		
2020	24	1	I. Introductory principles and experimental details.	F	
			Book launch: Composite Structure of Human Mind		
			Composite structure of human mind.		
2020	24	2	HuPoTest results on 5 weeks of fasting before Christmas 2019	F	
2020	24		Global warming and human mentality	Г	
			Book launch: Composite Structure of Human Mind		
			Left-Right Bio-Balance: Calorimetric approach of human mental state		
2020	24	3	II. Results on male persons under test.	F	
			Book launch: Composite Structure of Human Mind		
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.		
2020	24	4	XIII. Results obtained over 2019.	F	
			Book launch: Composite Structure of Human Mind		
			Estimation of global warming by differential calorimetric procedure.		
2020	24	5	III. Experimental results over 2019	F	
			Book launch: Composite Structure of Human Mind		
			Structural aspects of temperature phase transition in PTC-thermistors.		
2020	24	6	I. DC electric measurements	F	
			Book launch: Composite Structure of Human Mind		
_	_		Composite structure of human mind. HuPoTest results on 7 weeks of fasting	_	
2020	24	7	before Orthodox Easter 2020	F	
			Book launch: Composite Structure of Human Mind		
			Structural aspects of temperature phase transition in PTC-thermistors.		
2021	25	1	II. Combined DTA and electric measurements	F	
			Book launch: Composite Structure of Human Mind		
2021	25	2	Covid-19 pandemic: I. First wave	F	
			Book launch: Composite Structure of Human Mind	-	
			Structural aspects of temperature phase transition in PTC-thermistors.	_	
2021	25	3	III. Several features of hysteresis behavior	F	
			Book launch: Composite Structure of Human Mind		
			Structural aspects of temperature phase transition in PTC-thermistors.	_	
2021	25	4	IV. Topoenergetic structure of hysteresis behavior	F	
			Book launch: Composite Structure of Human Mind		

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

GDF DATABANKS BULLETIN, VOL. 25, NO. 5, 2021 Please feel free to distribute in integral form this issue. All correspondence at the author: gdf.dragan@gmail.com

Any reproduction from GDF DATABANKS BULLETIN in other documents and/or publications needs the written agreement of the author

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, Δ b)<0, Δ a>0: slow reaction (yo, Δ b)>0, Δ a<0: impulsive reaction

I encourage readers to advice me any observation.



www.gdfdatabanks.ro