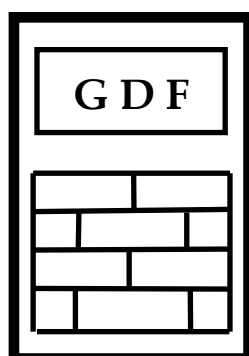


# **GDF DATA BANKS BULLETIN**



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**AUSTRALIA**

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DTA study of water freezing.  
III. New facts on daily mental field.

The present series is the result of a long and intense period of experiments on the kinetics of water crystallization according to topoenergetic principles [1]. The results showed that this process does not obey Arrhenius and Universal laws as temperature driven, but mental field resulted to be the most powerful potential driving this process. Previous work revealed the effect of every day long range mental field on induction time ( $t_i$ ) of water crystallization for a period of 6 days of experiments [2]. At first sight the dependence of  $t_i$  on hour of the day (HOD), both in each day and overall period, did not revealed important facts, but in a further analysis by grouping the overall data (Table I, in [2]) in groups of 2 hours, the spectrum of daily mental field is revealed. As it was expected, randomly oriented mental field (ROMF) as the results of all long range contributions of human community around the experimental site, inhibits water crystallization by increasing both of  $NDA(t_i)$  and  $NDS(t_i)$  [2] and has a maximum effect in a specific period of the day.

Figures 1-5 show the main statistical features of  $t_i$  groups vs HOD revealing that ROMF has the maximum effect in the period of 16-18 (4-6 pm) which corresponds with the finish of the work for majority of people. This means that those people have maximum mental activity in this period of day time when the maximum crowd in public places occurs: streets, car traffic, public transportations, shopping centres, etc. It is important to note that the same crowd is in the period of 8-10 am when the same people are going to work, but their ROMF is much lower than when they are going from work. It appears that the perspective of work duties inhibits and/or focuses mental activity.

It is expected as during night the ROMF spectrum is low and constant. I am waiting for a proper occasion as previous one [2] to make such experiments.

I made measurements on melting thermograms obtained IN VITRO DTA where  $h_1$  and  $h_2$  endotherms occur and correspond to inter-crystalline and crystalline order-disorder transitions, respectively [2]. These two processes are strongly connected each other for the same water sample and repeatable experimental conditions. Figure 6 shows a linear relationship which defines the pattern of water sample in specific standard experimental conditions. This is one of the basic topoenergetic principles. Parameters  $h_1$ ,  $h_2$  and splitting coefficient  $\alpha = h_2/(h_1+h_2)$  defining the amorphous-crystalline coupling [1], show also specific spectra vs HOD. For more accurate results I need to use a data-logger with higher resolution.

[1] G. Dragan, Structural and relativistic aspects in transforming systems. I. Arrhenius and Universal representations of thermally driven processes, GDF Databanks Bull., 15(2) (2011).

[2] G. Dragan, DTA study of water freezing. II. Statistical features on one week of experiments, GDF Databanks Bull., 16(2) (2012).

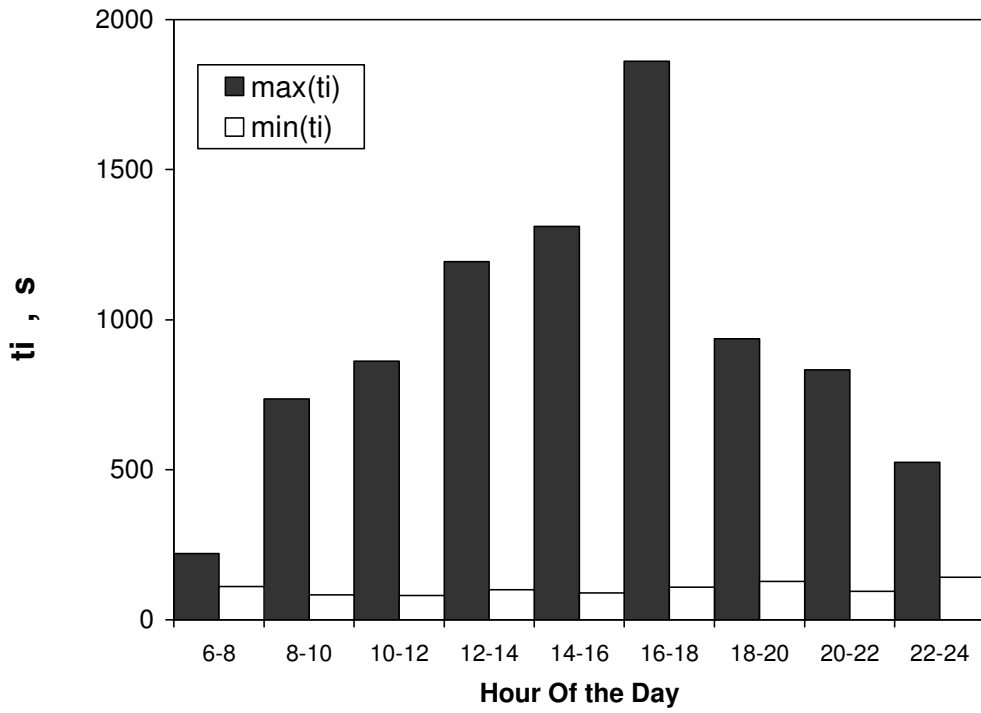


Figure 1.

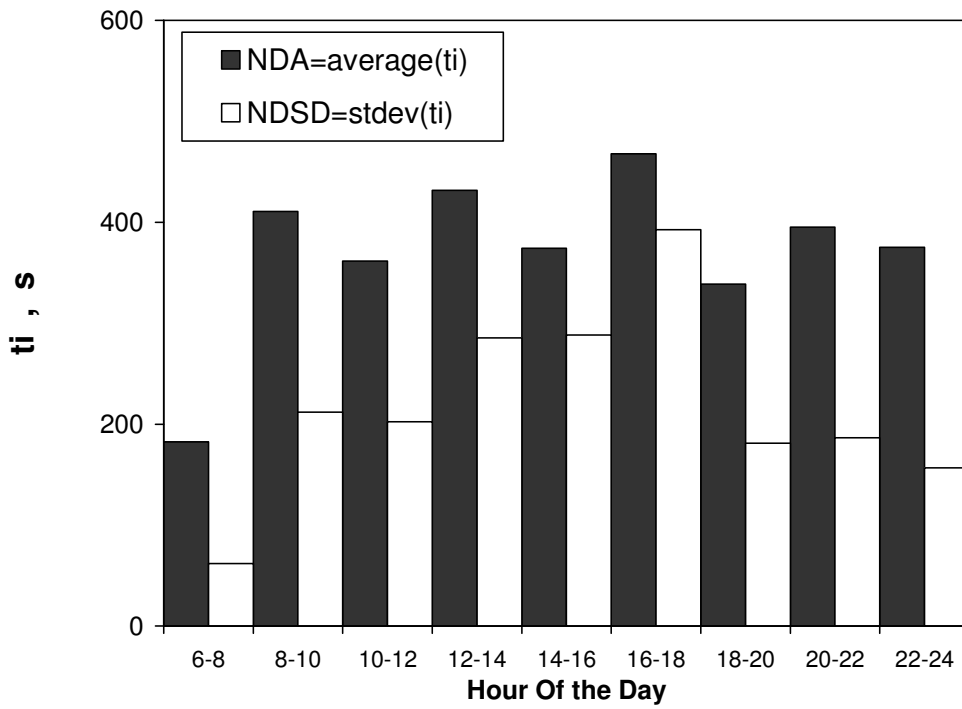


Figure 2.

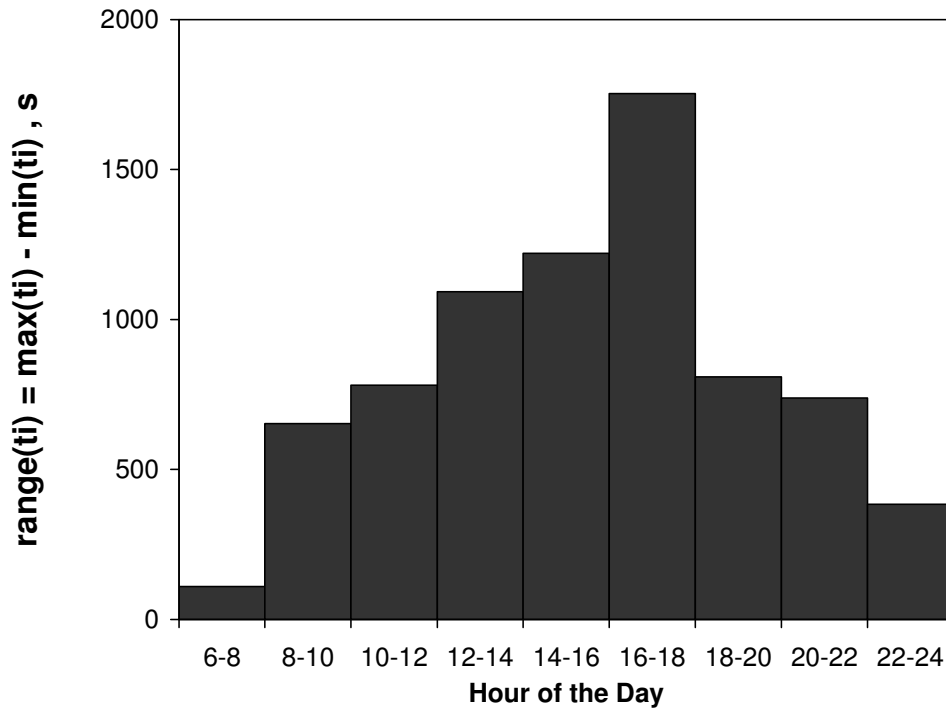


Figure 3.

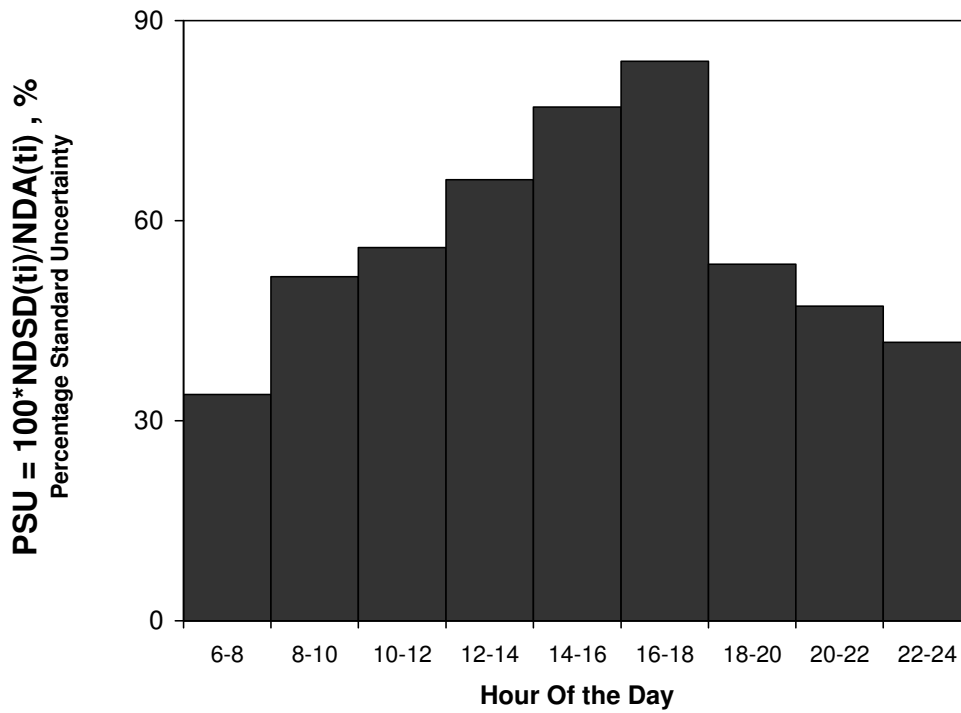


Figure 4.

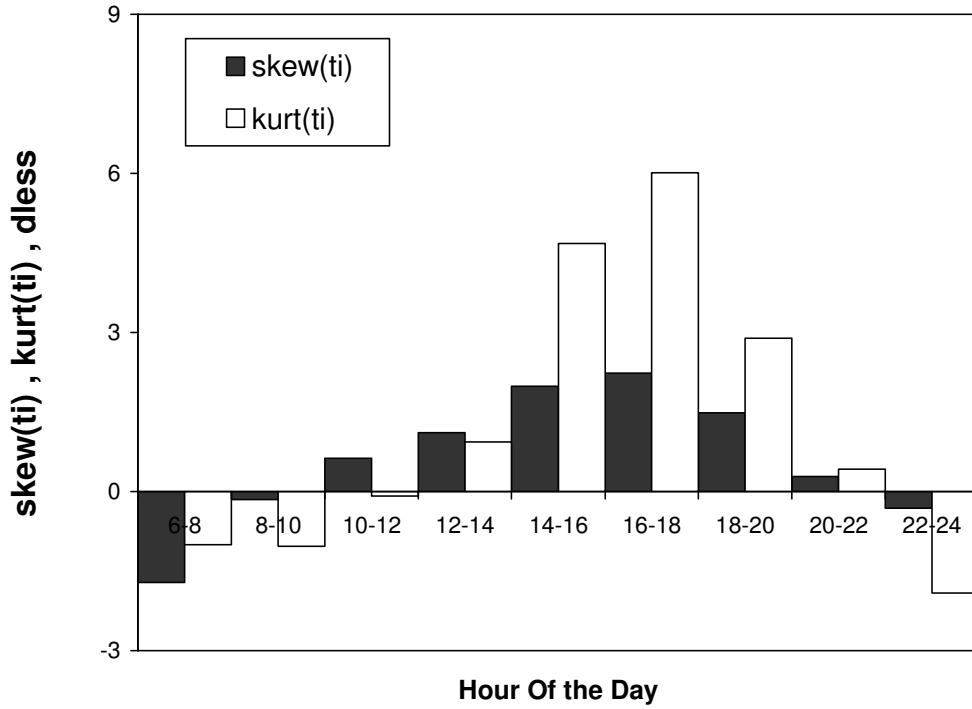


Figure 5.

skew = skewness of ND (d-less): > 0 asymmetry towards values > NDA;  
 < 0 asymmetry towards values < NDA;  
 kurt = kurtosis of ND (d-less): > 0 relatively peaked; < 0 relatively flat.

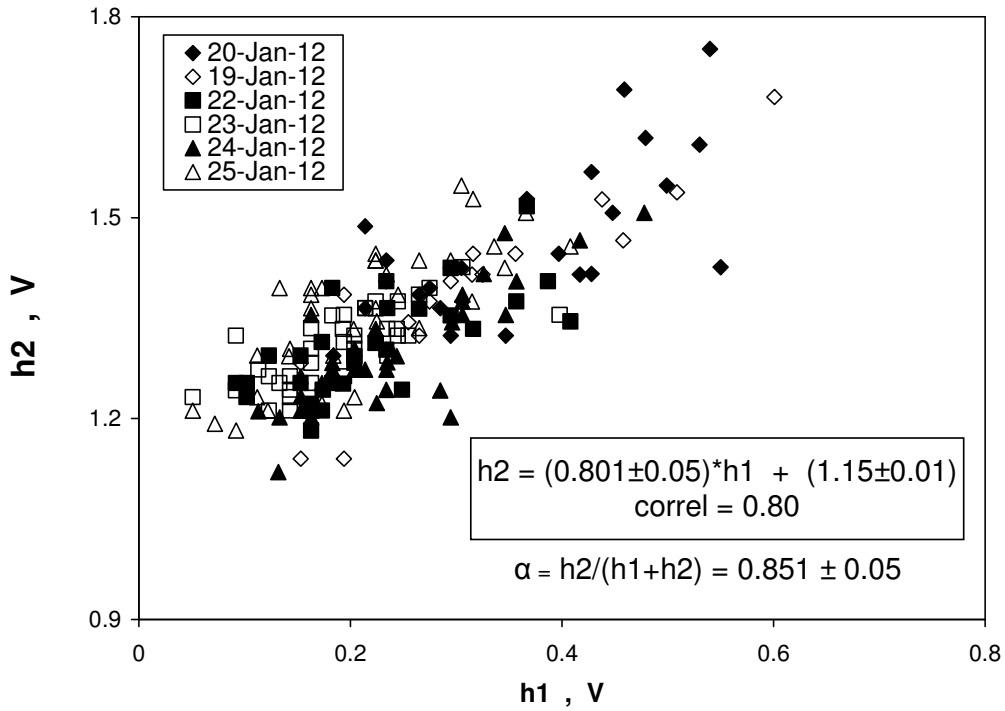


Figure 6.

## About the author:

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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.	F
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).	F
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 <sup>th</sup> 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.	F



continued

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2002	6	1	MOSATOR-01: Topoenergetic databanks for one component molten salts; 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 <sup>st</sup> NOTE: Homoeopathy: upon some efficient physical tests revealing structural modifications of water and aqueous solutions. I. Mixing experiments.	F
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 point according to ITS-90. Physics and Homoeopathy: some physical requirements for homoeopathic practice.(Plenary lecture at the 19 <sup>th</sup> SRH National Congress, 21-22 September 2004, Bucharest, Romania)	F
2005	9	1	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 commission of experts from the Polytechnic University of Bucharest. Upon some aspects of temperature measurements. (12 <sup>th</sup> International Metrology Congress, 20-23 June 2005, Lyon, France)	F
2005	9	2	A new technique for temperature measurement and calibration. National Society of Measurements (NSM). Important warning for T-calibrator users: MSA has chose metrology well calibrators from Fluke (Hart Scientific).	F
2005	9	3	Universal representation of Cancer Diseases. 1. First sight on NSW-2003 report. Universal representation of Cancer Diseases. 2. UK cancer registrations on 1999-2002. Vital Potential can estimate our predisposition for cancer diseases.	F
2006	10	1	NTC – thermistors -1	AFI
2007	11	1	HuPoTest - 40 years of continuous research Basic rules for preventing and vanishing cancer diseases Climate change = change of mentality Hot nuclear fusion – a project of actual mentality	F
2007	11	2	MT – Introduction to Mental Technology HuPoTest – general procedure, assignments of results, specimen of complete test , order and obtain your complete HuPoTest report	F

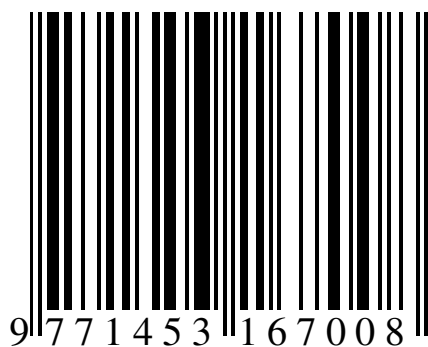
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2007	11	3	TRESISTOR© - data banks of materials with thermally driven electric and magnetic properties TRESISTOR© - NTC -1 - data bank of NTC thermistors	AFI
2008	12	1	Australian population: life, death and cancer	F
2008	12	2	Pattern of Cancer Diseases	F
2008	12	3	Adiabatic calorimetry – summary description of the demo prototype	F
2008	12	4	Flight QF 30 and even more... Temperature calibration of NTC-thermistors. 1.Preliminary results.	F
2009	13	1	Proposal for interlaboratory comparisons. Calibration of NTC-thermistors (The 14 <sup>th</sup> International Metrology Congress, Paris, France, 22-25 June 2009)	F
2009	13	2	Sudoku – un algoritm de rezolvare (Sudoku – an algorithm for solution)	AFI
2009	13	3	Cancer and Diabetes – as social diseases (Open letter to all whom it may concern)	F
2010	14	1	Studies on cement hydration by High Resolution Mixing Calorimetry (HRMC)	F
2010	14	2	Measuring tools for subtle potentials; pas-LED: an efficient measuring tool for subtle potentials.	F
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. I. Arrhenius and Universal representations of thermally driven processes.	F
2011	15	3	Topoenergetic aspects of water structuring as revealed by ac electric conductivity	F
2011	15	4	Topoenergetic aspects of human body	F
2011	15	5	HuPoTest: four month study of a case	F
2012	16	1	DTA study of water freezing. I. Upon some aspects of repeatability.	F
2012	16	2	DTA study of water freezing. II. Statistical features on one week of experiments.	F

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

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