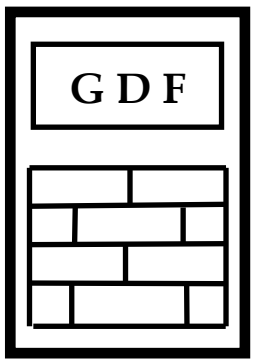
# GDF DATA BANKS BULLETIN

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**ROMANIA**

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ISSN 1453 - 1674

# Content





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GDF DATABANKS BULLETIN, VOL. 22, NO. 3, 2018
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# Estimation of global warming by differential calorimetric procedure. I. Experimental principles, preliminary results and their significance.

Dramatic changes of global climate in the latest years affecting important urban centers by floods, fires, big snows, tornados, etc., drew my attention on their direct connection with the resultant between Human Mental Field (HMF) and Bio-Fields (BF) as this connection was evidenced more and more clear by specific measurements [1]. Important and significant data issued by NASA on global temperature measurements over a period between 1850 and 2015 were analyzed in a recent note [2]. However, some metrological aspects concerning the accuracy of these measurements make these data as uncertain. Differential measurements offer higher accuracy, sensitivity and stability over long time being specific to calorimetric experimental procedures.

The present note opens a series of differential calorimetric measurements by describing the experimental details, preliminary results and their significance.

I took several opportunities in considering this experimental procedure, namely: (i) my house is located in a pure temperate climate on 45 degrees latitude at the middle distance between equator and north pole and far enough from seaside (Black sea at approx. 200 km); (ii) calorimetric system is located in a cortile approximately 4x4 sqm surrounded by 3 buildings of 4-12 m height avoiding the direct sunshine and strong winds; (iii) cortile is covered by ceramic tiles excepting a small square area of 0.66x0.66 sqm where the temperature sensors are placed.

Details of the cortile and the disposition of temperature sensors LM335 (TO92 package) are shown in Figures 1 and 2. One sensor corresponding to air temperature (TA) is placed in a brass tube at approximately 80 cm from the ground. The other one is placed at the bottom of a stainless steel tube at approximately 40 cm under ground. Both sensors are connected in differential circuit and the shielded cable goes in a measuring room to the conditioning circuit (Figure 3) and a data logger (Graphtec GL200, 16 bit resolution, 1 sample/5 minutes, on full scale of ± 500 mV or ± 1 V). Output voltage is converted in Celsius degrees (dTc) by taking into account the constant offset between the two sensors at the same temperature (measured at 4 points in the range of 10 and 50 $^0$C), the initial sensitivity of sensors (10 mV/$^0$C) and the gain of conditioning circuit (10x).

Measurements were performed continuously and saved over each consecutive 8 days on a memory stick changed at the middle of the night of the 8$^{th}$ day.

Preliminary measurements were performed on November and December 2017. Figure 4 shows the variation of dTc(HOD) on 1$^{st}$ November 2017 with coldest night (dTc < 0) and a little warmer day (dTc > 0). The corresponding heat released and gained by the ground, respectively, can be estimated in arbitrary units (a.u.) by summing all dTc values from the both sides (values written on the graph).

Figure 5 shows the two kinds of heat exchanged by the ground every day (24 hours) for the two months of measurements.

Figure 6 shows the resultant of heat exchanged by the ground as the algebraic sum of the two kinds every day. Finally, this value can estimate the local climate change on 24 hours. Furthermore, the heat exchanged by the ground on each month can be estimated. For instance, November appears colder than December in Bucharest in good agreement with the meteorological reports. It is important to note that north USA and Canada experienced unusual cold weather with big snows, while California and Australia suffered severe forest fires.

**Conclusion:** I intend to continue measurements on entire 2018 in view to estimate monthly and annually heat exchanged by the ground.

References

[1] G. Dragan, Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.X. Further estimations on 1$^{st}$ June 2017- 9$^{th}$ January 2018, GDF Databanks Bull., 22(2) 2018 and therein cited notes.
[2] G. Dragan, Global warming facts, GDF Databanks Bull., 21(8) 2017.

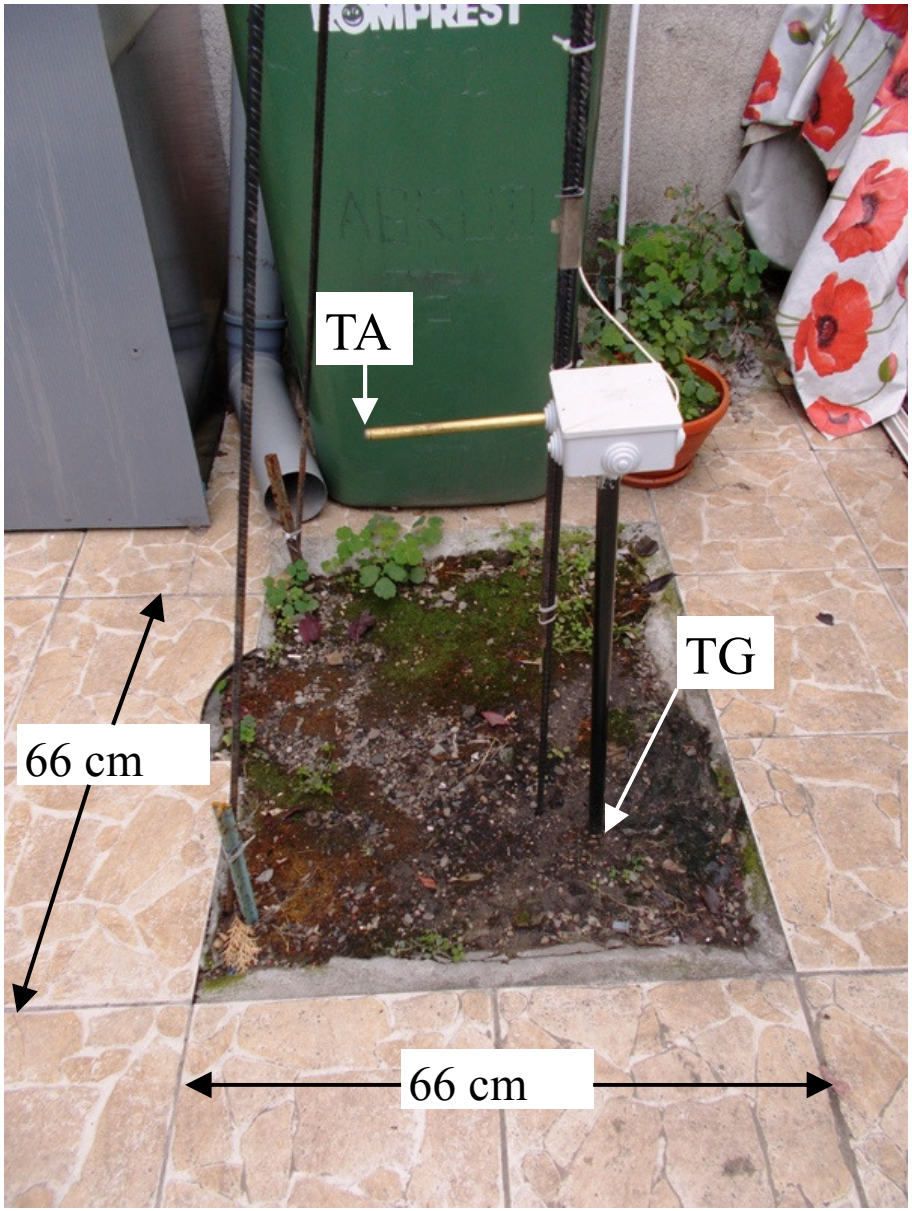


Figure 1.

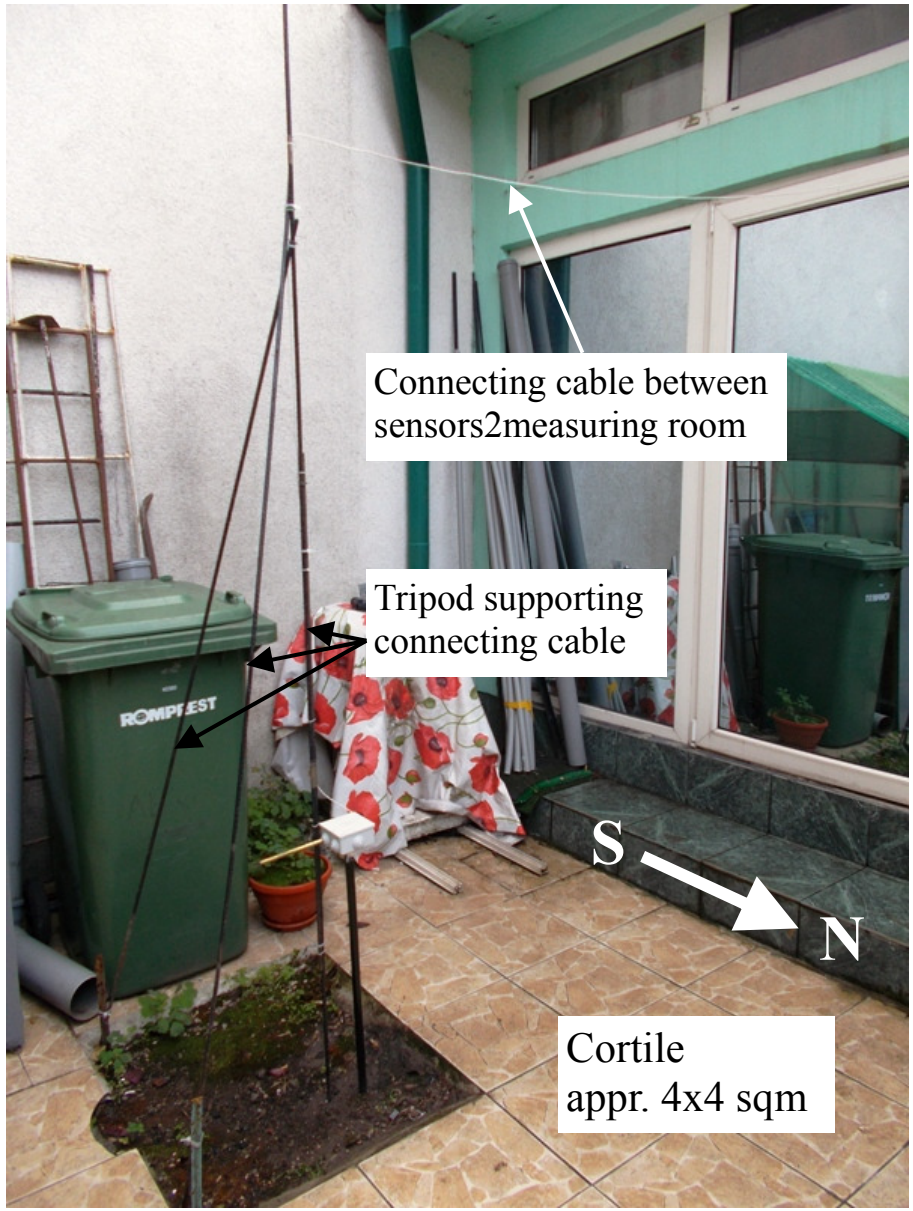


Figure 2.

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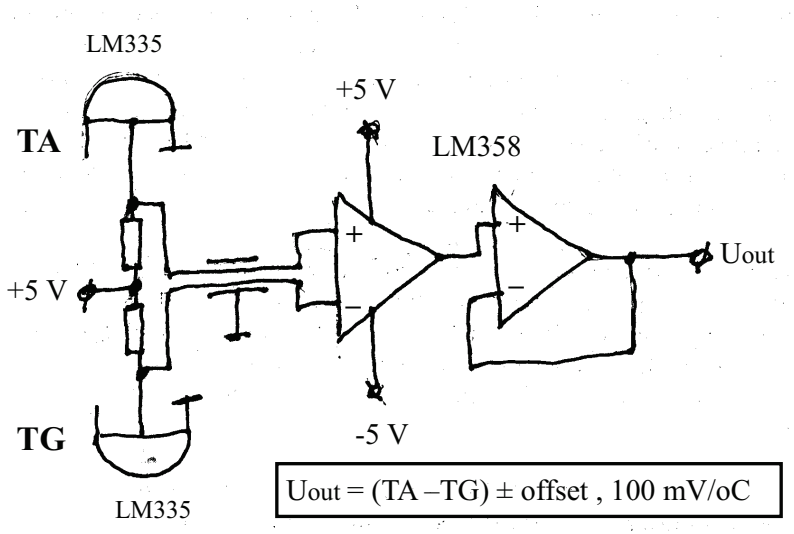


Figure 3.

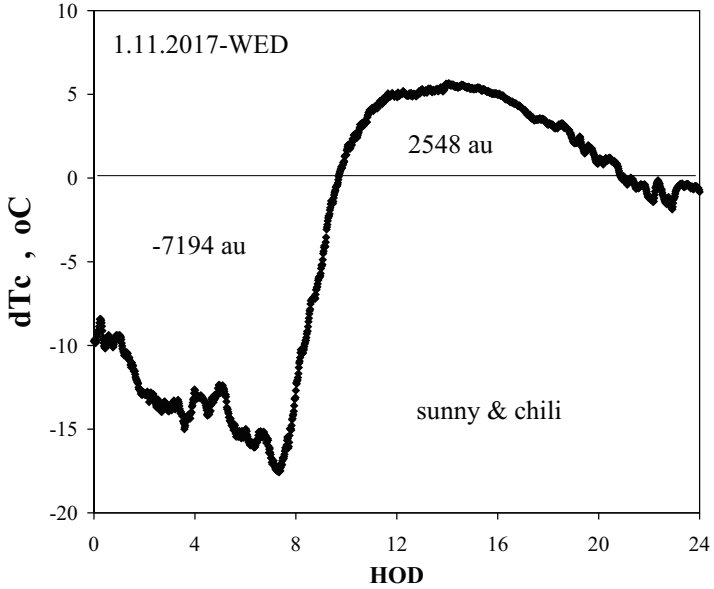


Figure 4.

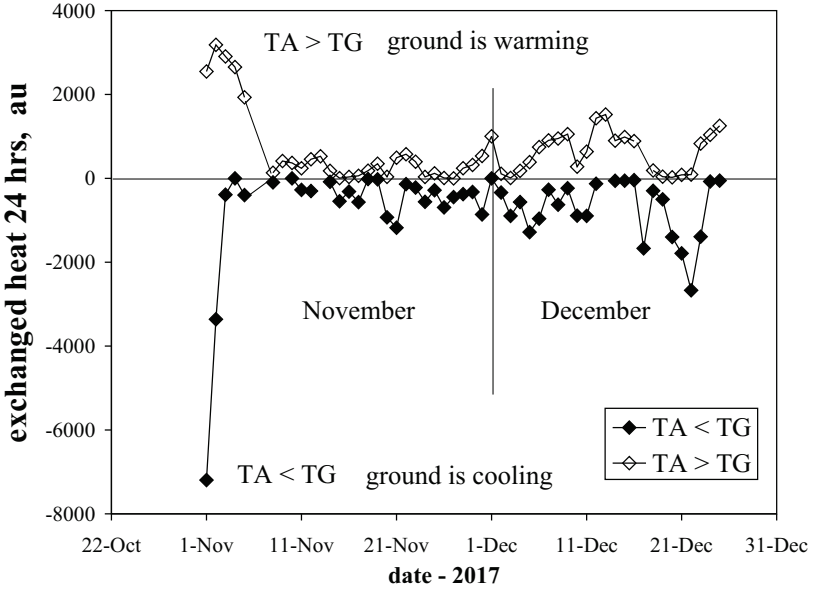


Figure 5.

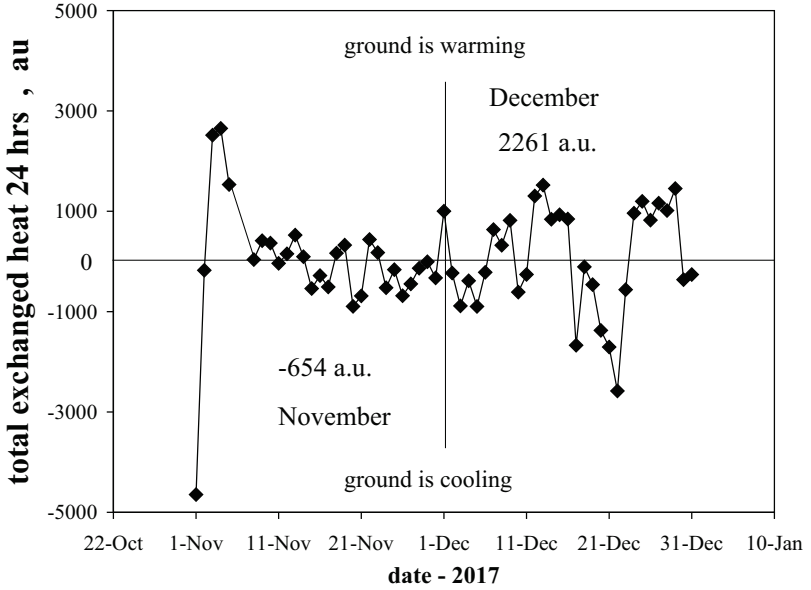


Figure 6.

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|---|---|
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| experience | ● Head of material testing laboratory, ICECHIM, Polymer Department, Bucharest (1969-1979);<br>● Initiator and leader of the research project on new forms and sources of energy; ICECHIM, Center of Physical Chemistry (1979-1988);<br>● Head of laboratory of analytical devices and measuring instruments, AMCO-SA, Bucharest (1988-1993);<br>● Founder & owner of GDF-DATA BANKS srl Bucharest (1993-2008);<br>● Expert metrologist, Romanian Bureau of Legal Metrology, Bucharest, Romania (1997-2000). |
| publications | ● >100 scientific papers<br>● >70 scientific communications<br>● 17 patents<br>● 5 books |
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# Previous issues of GDF DATABANKS BULLETIN

| Year | VOL | NO | Content (titles) | $*) |
|---|---|---|---|---|
| 1997 | 1 | 1 | Editorial: Databanks – the compulsory language.<br>LOGKOW – a Databank of evaluated octanol-water partition coefficients (James Sangster).<br>Solubility behavior introducing topoenergetic working principles.<br>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);<br>Behavior in vapor-liquid equilibria (VLE): I. Structural aspects;<br>Behavior in vapor-liquid equilibria: II. Several structures in databanks;<br>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)<br>DIFFUTOR: Databanks of diffusion kinetics.<br>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)<br>Doctoral Theses – important data banks.<br>GDF intends to open new series of experiments on thermo-physical properties.<br>Some comments on uncertainty: global budget and DFT analysis.<br>Events: The 9th 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.<br>Topoenergetic aspects of amorphous-crystalline coupling.<br>I. Composite behavior of water and aqueous solutions (paper presented at nanotubes and Nanostructures 2001, LNF, Frascati, Rome Italy, 17-27 October 2001).<br>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.<br>Visco-Dens Calorimeter: general features on density and viscosity measurements.<br>New vision on the calibration of thermometers: ISOCALT®<br>MOSATOR: Topoenergetic databanks on molten salts properties driven by temperature and composition. | F |
| 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.<br>MOSATOR: topoenergetic databanks of one component molten salts; thermally driven viscosity and electrical conductance. | F |
| 2002 | 6 | 3 | Editorial: Quo vadis Earth experiment?<br>ISOCALT® : Report on metrological tests | F |
| 2003 | 7 | 1 | Editorial: Time – an instrument of the selfish thinking.<br>1st NOTE: Homoeopathy: upon some efficient physical tests revealing structural modifications of water and aqueous solutions.<br>I. Mixing experiments. | F |
| 2004 | 8 | 1 | Metrological verification and calibration of thermometers using thermostats type ISOCALT® 21/70/2.<br>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.<br>Physics and Homoeopathy: some physical requirements for homoeopathic | F |

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|---|---|---|---|---|
| | | | practice.(Plenary lecture at the 19th SRH National Congress, 21-22 September 2004, Bucharest, Romania) | |
| 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.<br>Upon some aspects of temperature measurements.<br>(12th International Metrology Congress, 20-23 June 2005, Lyon, France) | F |
| 2005 | 9 | 2 | A new technique for temperature measurement and calibration.<br>National Society of Measurements (NSM).<br>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.<br>Universal representation of Cancer Diseases. 2. UK cancer registrations on 1999-2002.<br>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<br>Basic rules for preventing and vanishing cancer diseases<br>Climate change = change of mentality<br>Hot nuclear fusion – a project of actual mentality | F |
| 2007 | 11 | 2 | MT – Introduction to Mental Technology<br>HuPoTest – general procedure, assignments of results, specimen of complete test, order and obtain your complete HuPoTest report | F |
| 2007 | 11 | 3 | TRESISTOR© - data banks of materials with thermally driven electric and magnetic properties<br>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…<br>Temperature calibration of NTC-thermistors. 1.Preliminary results. | F |
| 2009 | 13 | 1 | Proposal for interlaboratory comparisons.<br>Calibration of NTC-thermistors (The 14th International Metrology Congress, Paris, France, 22-25 June 2009). | F |
| 2009 | 13 | 2 | Sudoku – un algoritm de rezolvare.<br>(Sudoku – an algorithm for solution). | AFI |
| 2009 | 13 | 3 | Cancer and Diabetes – as social diseases.<br>(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;<br>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.<br>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.<br>I. Upon some aspects of repeatability. | F |
| 2012 | 16 | 2 | DTA study of water freezing.<br>II. Statistical features on one week of experiments. | F |
| 2012 | 16 | 3 | DTA study of water freezing.<br>III. New facts on daily mental field. | F |
| 2012 | 16 | 4 | Mental field and state of health.<br>Câmpul mental şi starea de sănătate. | F |

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| 2013 | 17 | 1 | DTA study of water freezing.<br>IV. New facts on energy circuits. | F |
| 2013 | 17 | 2 | DTA study of water freezing. V. Effect of a mental antenna | F |
| 2013 | 17 | 3 | AC electric conductivity of untreated and mentally treated electrolyte aqueous solutions. | F |
| 2013 | 17 | 4 | DTA study of water freezing. VI. Mental field in a working day. | F |
| 2013 | 17 | 5 | DTA study of water freezing. VII. More statistical features on one week of experiments. | F |
| 2013 | 17 | 6 | HuPoTest: New measurements and results | F |
| 2013 | 17 | 7 | Time as unique base quantity. (Proceedings of the 16th International Congress of Metrology, 7-10 October 2013, Paris, France). | F |
| 2013 | 17 | 8 | Eurovision song contest. 1.Basic social aspects | F |
| 2013 | 17 | 9 | Mental field-water interaction as evidenced by Isothermal Convection Flow Calorimetry (ICFC). I. ICFC description and preliminary results. | F |
| 2013 | 17 | 10 | 1. Procedure for defining standard liquids for viscosity based on topoenergetic principles.<br>2. 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.<br>3. 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.<br>4. 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.<br>5. Open letter to BRML and INM. | F |
| 2014 | 18 | 1 | Adiabatic calorimeter as high accuracy T-calibrator | F |
| 2014 | 18 | 2 | Mental field-water interaction as evidenced by Isothermal Convection Flow Calorimetry (ICFC). II. Effect of convection flow power. | F |
| 2014 | 18 | 3 | Eurovision song contest. II. Copenhagen, Denmark 2014<br>and some more features on social mentality. | F |
| 2014 | 18 | 4 | The 38th Congress of American-Romanian Academy (ARA) of Arts and Sciences, 23-27 July 2014, Pasadena, California, USA | F |
| 2015 | 19 | 1 | Gold versus money. 1. An overview on main financial figures of world countries. | F |
| 2015 | 19 | 2 | Gold versus money. 2. Rich, middle and poor countries. | F |
| 2015 | 19 | 3 | High Resolution Mixing Calorimetry (HRMC) redivivus.<br>1. General presentation and heat capacity measurements. | F |
| 2015 | 19 | 4 | High Resolution Mixing Calorimetry (HRMC) redivivus.<br>2. Structure developing of aqueous solutions by mixing experiments. | F |
| 2015 | 19 | 5 | High Resolution Mixing Calorimetry (HRMC) redivivus. 3. Calibration | F |
| 2015 | 19 | 6 | Evidence of human mental field by ac-electric conductivity in electrolyte solutions. 1. Bio-energy. | F |
| 2015 | 19 | 7 | High resolution mixing calorimetry redivivus.IV. Specific heat of crystalline phase of water.<br>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 |
| 2016 | 20 | 2 | Structural aspects revealed by topoenergetic view on ac electric conductivity in HCl/(water + organic solvent) | F |
| 2016 | 20 | 3 | Stability of amorphous-crystalline coupling in electrolyte aqueous solutions in relation to interaction with bio-fields | F |
| 2016 | 20 | 4 | Efficient, simple and cheap outdoor extension of exhausting system using Bernoulli and thermal convection effects applied for air forced boilers on natural gas | F |
| 2016 | 20 | 5 | Good quality home made soap in high efficient conditions | F |
| 2016 | 20 | 6 | Interaction of quartz crystals with bio-fields.<br>I. Preliminary experiments on commercial quartz oscillators. | F |
| 2016 | 20 | 7 | Interaction of quartz crystals with bio-fields.<br>II. Differential measurements on pairs of commercial quartz oscillators. | F |

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| 2016 | 20 | 8 | Interaction of quartz crystals with bio-fields.<br>III. Quartz selection and their significances. | F |
| 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.<br>IV. Rough estimation of reproducibility | F |
| 2017 | 21 | 2 | Interaction of quartz crystals with bio-fields.<br>V. Closer look on quantitative estimations | F |
| 2017 | 21 | 3 | Interaction of quartz crystals with bio-fields.<br>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<br>HuPoTest – read this first<br>Message to the organizers of the snn2016 Conference (http://snn2016.snn.ro/) and to all whom it may concern<br>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)<br>Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.<br>VII. Dielectrics with high oriented crystalline structure. | F |
| 2017 | 21 | 5 | Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.<br>VIII. Dielectrics with high oriented crystalline structure.<br>HuPoTest – data base correlations revealing mental pattern. | F |
| 2017 | 21 | 6 | Upon some features of global economic structure<br>Eurovision song contest 2017 | F |
| 2017 | 21 | 7 | HuPoTest – proper training and creation of simple database in view to evaluate mental improvement<br>HuPoTest – project for the complete software available for any individual user | F |
| 2017 | 21 | 8 | Global warming facts<br>Topoenergetic structure of trees ramification | F |
| 2017 | 21 | 9 | HuPoTest – simple Matlab software for time measurements<br>HuPoTest – preliminary tests on PUT response reaction | F |
| 2018 | 22 | 1 | Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.<br>IX. Measurements on 1st June 2017- 9th January 2018. | F |
| 2018 | 22 | 2 | Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.<br>X. Further estimations on 1st June 2017- 9th January 2018.<br>HuPoTest- news. | F |

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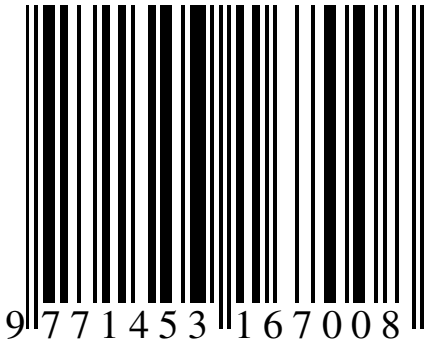


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