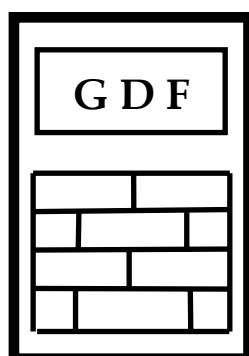


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HuPoTest – 40 years of continuous research

“Mind is the builder” (*Edgar Cayce*)

HuPoTest is the name of a procedure establishing human potentials discovered incidentally in 1967 by experiencing the fact that I was able to predict the hour of the day and also to count seconds with high accuracy. By extending measurements on more and more people I established data banks on statistical retrieval of obtained data, homogenous groups with different patterns of personality and defining finally features of personal health state basically driven by mentality. Subsequently, I established that this procedure belongs to the classical procedures of calibration of measuring instruments, so that HuPoTest actually calibrates the timer of the person under test [1]. Mentality or the thinking activity needs a time base (timer) similar to microcontrollers in data acquisition, their retrieval and taking decisions. Timer and mentality are strongly interconnected defining each other. Simply said, a good mentality is based on good timer (stable and well tuned) and both of them define the vital potential driving a good health. HuPoTest can estimate personal and instant vital potential [2].

I describe below the main features of HuPoTest in simple and clear terms as to be applied and understood by everyone both as a test and training procedure for vital potential as well.

Objective: the person under test has to count (measure) periods of time of 5, 10, 15 and 20 seconds in special conditions (see the procedure), the measured values are retrieved statistically by a simple software (see the software) and the final values stored in a data bank in view to reveal the evolution of the health state (vital potential) according to the given significances.

Materials and tools: A digital stopwatch (DSW) with an accuracy of at least $1/100 = 0.01$ second easy to master the Start/Stop button and read the dials. An accurate analog wall clock (AWC) with jumping hand for seconds; a completely silent room, a comfortable chair, paper & pencil to note the results. It is better at least for the beginners to be helped by another person who has to read and note the results.

Procedure:

1. the person under test must chose a silent room without any optical or sonic stimulant during all test (remove all stimulant lights and sounds, telephones, radio, etc) ;
2. he has to chose a comfortable chair or sofa and a comfortable position;
3. after a short period of relaxation he must accommodate with the second shown by the AWC trying to beat in his mind the second according to this standard; after this period of accommodation AWC is removed from the room or is hidden under a thick shield.

4. subsequently, the person under test fixes the DSW, accommodates with the buttons for Star/Stop and Reset and tries to count 1-2 (no more) periods of 5 seconds without noting the results;
5. measurements of 5, 10, 15, 20 seconds each period at least 5 times and by noting each value in a Table (see Figure 1, orange cells);

IMPORTANT:

All measurements do not last more than 5 minutes for 5 values for each period of time and overall test takes up to 10 minutes.

During each measurement the person under test must not see the DSW display. Better he keeps eyes closed.

Software proposed can be written and used by anyone accustomed at medium level with Excel under Windows and is presented below by Excel sheet and the definitions of each calculation. More detailed software can be obtained for free by request. The blue cells represent the head of columns and rows of the sheet, the orange cells are the 5 measured values for each period of time 5, 10, 15 and 20 seconds corresponding to the rows 3, 4, 5 and 6, respectively. In the other cells presented in the definitions must be written the functions as such. Four statistical quantities (Q) are estimated on the measured values, namely SSD, slope, intercept and correl (pink cells).

In the green cells are placed normal or ideal values of each Q estimated over a significant number of tests relative to which the varQ values are estimated in yellow cells.

Figure 1. Excel sheet of HuPoTest software.

	A	B	C	D	E	F	G	H	I
1	x _j , j	1	2	3	4	5	y _j	stdev j	varQ
2	5	4.94	5.03	5.31	5.15	5.47	5.18	0.21	
3	10	9.84	10.53	9.84	10.06	10.09	10.07	0.28	
4	15	15.25	14.62	15.07	15.96	15.43	15.27	0.49	
5	20	21.21	20.53	20.53	21.18	21.25	20.94	0.38	
6					0		SSD	1.36	1.36
7					1		slope	1.05	0.05
8					0		intercept	-0.25	-0.25
9					1		correl	0.99944	-0.00056

Definitions:

G2 : =average(B2:F2) ... G5: =average(B5:F5)

H2 : =stdev(B3:F3) ... H5: =stdev(B6:F6)

SSD (H6): =sum(H2:H5);

slope(H7): =slope(G2:G5,A2:A5) ;

intercept(H8): =intercept(G2:G5,A2:A5) ;

correl(H9): =correl(G2:G5,A2:A5);

varQ: I6: =H6-F6... I9: =H9-F9.

Agenda Table (values in pink cells):

Date/hour	12Aug2006/18:00	units
SSD	1.36	seconds
slope	1.05	d-less
intercept	-0.25	seconds
correl	0.99944	d-less

Assignments:

SSD shows the degree of global scattering of our measurements. In the ideal case $SSD = 0$.

Slope shows the ratio of our proper second to the standard second of the DSW. For instance in the case above given, the second of the tested person = 1.05^* (standard second). For the ideal case when the two seconds are equals slope=1.

Intercept is the measured value extrapolated at standard value $x_0 = 0$ by taking into account all measurements. For the ideal case intercept=0.

Correl is the correlation coefficient of measured values with the imposed (standard) values. For an ideal correlation correl =1, for poor correlation correl < 0.90.

In conclusion, ideal case will correspond to a perfect behavior of the tested person. This ideal case does not exist practically, but statistically a perfect healthy person behaves very close to the ideal case.

As general rules:

- (i) HuPoTest is an efficient test of human potentials, but it is also an efficient training procedure improving these potentials;
- (ii) A single test can not define the health state and does not improve potentials of a person, because the values of the four quantities are specific to each type of personality. However, for an experienced person having a significant data bank of results isolated data show important features. The best fit is reached when $SSD < 2$, slope = 1.00 ± 0.05 , intercept = 0 ± 0.5 and correl > 0.990 , but the important rule for a good health state is to keep constant specific values with minimum variations. In Figure 1 are placed the ideal values as normal ones (green cells).
- (iii) It is necessary frequent application of HuPoTest in correct conditions (see above) and to record every time the four values preferably in a cumulative Table as data bank in view to establish normal values of each quantity and revealing at a glance the health evolution;
Abnormal values for one or more from the four quantities appeared as variations greater than usual in a period of time (for instance more than 3 consecutive tests) are an alarming sign for more detailed analyses.

IMPOTANT: Not all four quantities show simultaneous and equal variations, for instance SSD and intercept can be subjected to bigger variations while correl has smaller variations. However, all fluctuations must be correlated with different causes. Significant data bank of values along experience with HuPoTest helps each person under test establishing his own normal and alarming values for each quantity and the causes for abnormal values.

- (iv) When such abnormal values appear, we must: (a) analyze evolution by our self first in view to identify what are the causes of this abnormal evolution; (b) we can consult one or more medical doctors asking detailed data and explanations helping us to understand our abnormal evolution; (c) if we consider our condition as serious taking into account all facts, we can ask for detailed clinical tests starting with blood pressure, body temperature, heart pulse up to more complete tests focused on specific organs and/or functions; (d) it is important for our further evolution to understand our self in every detail our condition by considering all facts and trying to master it by properly thinking and adapting our general behavior.
- (v) HuPoTest is sensitive to the short term causes as the hour of the day, degree of tiredness, mental stress, medication and/or food with neuroleptic and/or psychotropic effects (including coffee and alcohol) which the person under test is taking before the test, so that at least normal values must be determined in the period of time without any such influences and periodic tests undertaken at the same hour of the day. HuPoTest is also sensitive to the long term causes as age, sex, some disabilities and/or chronic diseases (Parkinson, diabetes, allergies, mental abnormalities, etc.). Thorough experience with HuPoTest can greatly help each of us in finding the right way to improve, even to remove these conditions.
- (vi) We must devote one day at each 1-6 months (depending on the condition we consider to determine and/or improve, for instance at weekend) when HuPoTest is applied at every hour from 6 am up to 10 pm. In that day we must be isolated from any external problems in comfortable conditions.

More details can be obtained by request on e-mail.

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[1] G. Dragan, "Definition and assignment of some global uncertainties of measurements", The 9th International Metrology Congress, Bordeaux, France, 18-21 October 1999, p.353-356.

[2] G. Dragan, "Time - the instrument of selfish thinking", Bucharest 2004, ISBN 973-0-03345-5.

Basic rules for preventing and vanishing Cancer Diseases

*Mens sana in corpore sano (A sound mind in a sound body,
Juvenal, Satires)*

Statistics data show that Cancer Diseases (CD) is the direct result of the modern life style (MLS) (see the other notes). Getting fat or obesity is also caused by MLS, but appeared to be not fatal. It is important to observe that both CD and obesity are present in high proportion in countries with high extension of MLS in all social layers.

All of us are potentially patients of CD and obesity, so we need to adjust properly our life style. The following aspects must be continuously in our attention for preventing and vanishing CD:

A - THINKING: "Mind is the builder" Edgar Cayce was using to say in his readings. MLS is based on the principles: "nobody trusts nobody" and "each one for himself and against all other ones". These principles destroy unity and harmony of our organisms (UHO), because MLS is based on a continuous struggle in hiding our pure thoughts and intentions with impure ones aiming personal benefit. On very short: if we hit in one manner someone else (verbally, physically, mentally) this will affect us as a two body collision process. The mind is the best our friend, but it can be the worst our enemy. The ten commandments of the Holy Bible help us to think properly gaining and maintaining our UHO. Our organism has all weapons fighting against all external attacks, but they are effective only in unity and harmony. For instance, the UHO of a new born is unaltered and starts to be affected progressively by MLS.

We can greatly improve our UHO by (i) knowing first our self in every moment and every detail and (ii) by thinking and acting in good harmony with our pure thoughts. We need to measure correctly what happens with us and around to us, for instance the body temperature, the weight of our meals, the body weight, the hour of the day, blood pressure, etc. In this way we can correlate our health state with these main data. A diary is effective.

A Romanian writer (Tudor Musatescu) was using to say that to tell lies is more complicated because he has to invent many, so he prefers to tell the truth because is unique. We must fight for truth not against it. This is the unique way to harmonize our self with the Universe. This is our real benefit.

Avoid emotions, especially the bad ones and maintained for long time (fear, panic attack, anxiety, terror). In these conditions our UHO is completely destroyed and we can not restore it only by our self. Many CD start in these circumstances, for instance after a divorce, by losing a beloved person or pet, accident with physical disability, etc.

MLS breaks the natural inner and outer links of our mind and body creating new ones with artificial sources of food, drugs, and information destroying our inner

resources - UHO. This mechanism explains the exponential increase of the number of CD cases with the age of the patients.

MLS spoils us so that we are trying to transfer the responsibility of all our failures to someone else: we call immediately the doctor, take pills, find guiltiness and are waiting for good results being convinced that this is enough.

We must avoid and stop from very beginning all bad relationships.

We must make mind our best friend by exercising thinking. We must not waste any instant to search deep inside our self. Watching tv for hours every day makes our mind a dangerous enemy. Enjoy any instant of quiet and loneliness.

SEX CAN KILL. Breast and prostate cancer are most frequent cancer diseases, mainly caused by improper sexual activity based on impure mind and body. Human being needs continuous love based on pure mind and body. Man and woman kill each other by improper relationships.

B.- WATER is one of the most important matter for our organism and certainly in maintaining our UHO. Water is the most important carrier of good and bad other matters in the body, but also for pure information. Homoeopathy uses this important property of water, but information can be properly transmitted and used only in a good UHO.

Unfortunately, all water we drink every day is contaminated basically with calcium (Ca), mercury (Hg), heavy water (D₂O) and organic residues which can not be retained by filters, only by cell membranes of our body. Ca, Hg and D₂O can be generated and/or deposited in some conditions in the tissues of our body, so UHO is progressively and almost irreversibly broken.

In such circumstances, drinking only freshly distilled water may restore UHO.

There are well known therapies with distilled water applied in severe CD with spectacular results (for instance procedures prescribed by Valeriu Popa).

C. – SKIN is the main gate of our organism to the external medium. Most of diseases start from our skin. We must keep it clean and properly active. Perspiration, breathing, skin secretions (bronchial and nose mucus, ears wax, women periods, tears, etc.) are continuous, natural and important processes in maintaining skin clean, active for proper UHO, so we must help them by drinking much pure water, breathing properly pure air, keeping skin clean permanently. Environment and climate change conducted to skin cancer increase which is most difficult to treat.

Avoid cosmetics, detergents, medicines, clothes made from artificial materials.

Avoid long exposure to solar radiation. When we come out in open sites, we must wear a cap and sun glasses in any circumstances. Walking in rain, snow, forest and on the beach side has a beneficial effect on our skin and UHO.

Simple soap and water are enough to maintain our skin clean and active. There are several substances helping the skin in some critical conditions: glycerol, talc,

infusion of some herbs, vegetable oils, etc., but used with precaution. “There is a plant for each illness” abbot Kneipp said.

It is also important as our feet be in good contact with the ground by walking barefoot on grass, river stones, beach sand, water, etc.

D.- AIR is our natural and permanent medium supplying the necessary oxygen for all skin. It is important to keep as much as possible our skin uncovered in good contact with clean air. Forced and natural air drafts may cause severe affections.

Air does not mean only oxygen. It contains other bad and good matters and also pure information. Content of ions, water, radioactive particles and its pressure are some of the important characteristics affecting our UHO.

E. – FOOD:

1. Avoid as possible meat;
2. Avoid genetically modified and eat only organically grown vegetables and fruits;
3. Use only natural herbs from spontaneous flora for your tea;
4. Avoid any food additives;
5. Avoid as possible medicines. There are only several medicines with negligible side effects. In general they destroy our UHO. If we get any kind of disease, wound, etc. we will start immediately with a quiet rest and relaxation during which we can identify the nature and the amplitude of the illness and to help our organism to reach its proper unity and harmony.

These principles can be summarized in continuously purifying of our mind and body. In proper UHO we are able to know the first signs of any disease, so we must take them into account immediately. Any delay could aggravate and makes impossible the recovery. We must note frequently the parameters defining our proper UHO in view to identify the cause of any affection. There are specific markers defining cancer diseases, but they show that the cancer is already installed.

However, death is unavoidable process which does not mean the finish for our UHO. We must prepare our mind and body for this important challenge.

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18 December 2005

Stimati Cetateni,

Va transmit alaturat cateva estimari sumare privind aspecte ingrijitoare ale modificarilor de clima petrecute in ultimul secol la nivel global si cu consecinte grave mai ales la nivelul Australiei.

Sa ne gandim serios macar la urmatoarele evenimente de ultima ora:

- (1) clima deosebit de calda pentru aceasta perioada in toata emisfera nordica;
- (2) desprinderea unor blocuri uriase de ghiata din calota glaciara de la Polul Sud odata cu inceperea verii australe,
- (3) Australia: seceta, incendii de proportii, rata cea mai ridicata de cancer din lume.

Desi aceste modificari cat si legatura lor directa cu stilul de viata si starea de sanatate sunt evidente pentru toti locuitorii planetei, luarea unor masuri imediate si radicale intarzie in primul rand datorita faptului ca populatia nu este corect informata.

Politicienii si liderii marilor concernuri economice stapanesc in intelegere destinele omenirii pe principiul binelui personal si imediat neglijand viitorul planetei.

Consider ca mobilizarea societatii civile intr-o lupta de constientizare pe baze stiintifice si corecte a tuturor cetatenilor asupra tuturor aspectelor legate de modificarile climei, va duce la gasirea masurilor imediate si adecvate pentru ameliorarea la timp a situatiei globale si locale.

In cazul in care se mai intarzie aplicarea rapida a acestor masuri, geografia lumii se va modifica dramatic in urmatoorii ani, astfel ca Australia va dispere sub apele oceanului planetar.

Fie ca apropiata Nastere a Domnului Nostru Isus sa ne uneasca pe toti in lupta fara granite in care INAMICUL PUBLIC NR.1 este propria noastra mentalitate iar arma cea mai puternica este ADEVARUL.

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18 Decembrie 2006

Dear citizens,

Attached you will find some summary estimations regarding alarming aspects of climate change occurred in the last century at global level with severe consequences in Australia.

Let us think seriously at least to the following phenomena as stop news:

- (1) warm weather particularly strange for this season in the northern hemisphere;
- (2) detachment of huge ice blocks from the South Pole icy calotte once with the beginning of Austral summer;
- (3) Australia: ample drought, fires, the highest rate of cancer.

Although these changes and their direct connection with the human life style and health state are obvious for all planetary citizens, practical applications of immediate and radical measures is indefinitely postponed firstly due by the fact that citizens are not correctly informed.

Politicians and the leaders of the biggest economical groups are mastering in the partnership the humanity's destiny for personal and immediate benefit unconcern for the planetary future.

I consider that by mobilizing of all civil society in the continuous fight in making aware to all of them of all aspects of climate change on scientific and correct bases will lead to the right and immediate measures to improve the severe actual situation, both at global and local level.

In the case these measures are postponed for more, the world geography will change dramatically in the next several years, for instance Australia will disappear under ocean.

Let the next symbolic event of Nativity of Our Lord Jesus joins all of us in that fight without borders against our NO 1 PUBLIC ENEMY = our mentality for which the most powerful and adequate weapon is the TRUTH.

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18 December 2006

Climate change = change of mentality

Summary estimations ^{x)}

1. Carbon (C) combustion (CC) and methane emission (ME) are considered the main factors driven by human activities for earth climate change.
2. ME is estimated to be 21 times more powerful a greenhouse gas than carbon dioxide (CD) and it has no chance to be removed from atmosphere. Not processed CD by photosynthesis and ME go up in stratosphere removing the ozone shield that protects biosphere of ultraviolet (UV) radiation.
3. The main CD sources are power plants and vehicle engines.
4. The increase of CD content in the atmosphere: 1900-1940 by 18%; 1940-2000 by 82%.
5. 1kgC consumes by combustion 2.7 kg oxygen (O) and produces 3.7 kgCD which means that a volume of $1.9 \cdot 10^3$ LSTP of O is replaced by CD (LSTP=litre of gas at standard temperature (0°C) and pressure (1 atm= 10^2 kPa));
6. 1 kWh of electrical energy based on CC is produced by burning at least of 0.3 kgC (considering the overall efficiency of 30%).
7. In the year of 2001-2002 Australia produced 216,316 GWh = $2.2 \cdot 10^{11}$ kWh (over 92% based on CC), i.e. consumed $1.8 \cdot 10^{11}$ kgO and produced $2.4 \cdot 10^{11}$ kgCD ($1.3 \cdot 10^{14}$ LSTP each).
8. 1l of petrol (fuel oil, P) consumes by burning 1.6 kgO and produces 2.2 kgCD (a volume of 1,120 LSTP of O replaced by CD).
9. In the last decade Australia consumed an average of $4 \cdot 10^{10}$ lP/year which means a consumption of $6.4 \cdot 10^{10}$ kgO/year and emission of $8.8 \cdot 10^{10}$ kgO or $4.4 \cdot 10^{13}$ LSTP/year of O replaced by CD.
10. In the year of 2001-2002 Australia produced $8.63 \cdot 10^{17}$ J ($54 \cdot 10^6$ J/kg) from an amount of $1.6 \cdot 10^{10}$ kg natural gas which means a consumption of $3.2 \cdot 10^{10}$ kgO and emission of $4.4 \cdot 10^{10}$ kgCD i.e. $2.2 \cdot 10^{13}$ LSTP of oxygen was replaced by CD.
Australian Bureau of Statistics reported an estimation of $3 \cdot 10^{11}$ kgCD generated by fuel combustion in 1997.
11. The annual CD emission in Australia is at least $2 \cdot 10^{14}$ LSTP (summation of contributions from 7, 9 and 10) neglecting other important CD sources as respiration, fermentation, fires, volcanoes, etc.
12. ME mainly result by digestive processes in all biosphere entities based on aerobic metabolism (85%) and by bacterial decay of organic matters (15%).
13. One mature cow produces 400 kgME/year ($5.6 \cdot 10^5$ ME LSTP/year) including the bacterial decay of its organic waste; animal agriculture produces more than 10^{11} kgME/year ($1.4 \cdot 10^{14}$ ME LSTP/year), from which 10% the contribution of Australia is a rough approximation, but must be rigorously controlled.

14. A rough estimation of Australian annual contribution to ozone destruction in Earth stratosphere is $2 \cdot 10^{14}$ LSTP O /year and generation of $2.2 \cdot 10^{14}$ STPL (CD,ME)/year.
15. Stratosphere (S), where the ozone shield is located, represents a spherical mantle with the inner diameter of 6400 km and outer diameter of 6425 km (25 and 50 km from Earth surface, respectively) with an approximate volume of $VS = 1.29 \cdot 10^{22}$ LS (liters of stratosphere) with an average temperature of $-(19 \pm 28) ^\circ\text{C}$ and pressure of (2.8 ± 0.4) kPa, so that 1 LSTP = 33.2 LS. In these conditions the above estimation of Australian contribution to ozone destruction and greenhouse gas emissions becomes $6.6 \cdot 10^{15}$ LS and $7.3 \cdot 10^{15}$ LS, respectively. We should compare VS value with the accumulated volumes of green house gases and oxygen destruction, i.e. summation of all annual emissions and oxygen consumptions, but comparing periodically them with values of gas content in the overall atmosphere.

Conclusion: immediate removal of CD and ME sources and increase of natural O sources based on photosynthesis.

Practical procedures:

1. Efficient promotions for reliable and portable measuring instruments for environment testing, suitable to be handle by anyone: temperature, pressure, humidity, level of precipitations, gas composition of atmosphere (CD, ME, O, etc.) at different heights, level of nuclear, UV, radio (RF) radiations, other noxes;
2. Daily reports issued by at least 3 independent sources and frequent informative presentations in mass media concerning environment status at regional and national scale presenting the values and their significances of the main quantities above mentioned;
3. Rapid reducing up to complete removal of meat, fermentation products and animal agriculture by adopting severe laws imposing and controlling maximal values for oxygen consumption and emission of greenhouse gases and minimal values for oxygen generation all these values reported to soil surface no matter the ownership;
4. Food based on natural (genetically non-modified) vegetables and fruits only, intensively and extensively grown in modular greenhouses with controlled units for gas consumptions/emissions imposed to all real estate owners;
5. Adopting and imposing highly efficient biotechnologies for decay of all organic wastes by using highly controlled means without ME and/or oxygen consumption (bugs, worms, etc).

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^{x)} Syntax used for expression of big numbers: $33,480,000,000,000 = 3.4 \cdot 10^{13}$

Hot nuclear fusion – a project of actual mentality

*“Old fashions, please me best, I am not so nice
To change true rules for odd inventions”
(W. Shakespeare, The Taming of the Shrew)*

Globalization has an untold reason: terrestrial mankind already reached the limits of his mentality. In these limits he is not able to progress any more, on the contrary he is sinking in the ecstasy of hopeless pleasures and agony of incurable diseases.

Ambition of space conquest was abandoned since the last journey on the Moon in April 1972 afterwards Wernher von Braun quitted NASA.

Theory of relativity produced no beneficial effect on human being until now, although Einstein's name is manipulated as the symbol of terrestrial wisdom.

Dramatic climate change at global level in the latest years reveals that the discovery of fire and iron conducted to continuous degradation of our planet and confinement of our mind by a lazy mentality. So called progresses of mankind were based on polluting technologies essentially developed for killing wars. Even more, politicians and their supporters - the leaders of the biggest economical groups, are convinced that wars are absolutely necessary for technological and social progresses. However, it became clear even for average people that human civilization will disappear soon as dinosaurs did if the mankind will not change his mentality in the last seconds.

Humans want more and more energy and food, but their consumption will conduct inevitably to planet warming and climate change regardless their sources.

Scientists desperately are fighting for odd inventions substantiating new “clean energy sources”, but keeping unchanged mentality.

Nuclear fission produced first the A-bomb in 1945 and subsequently nuclear fusion produced H-bomb in 1952 as significant options of human mentality. Bomb means reaction of the matter triggered by human mind but uncontrolled afterwards. In the meanwhile, scientists succeeded to put under a fragile control nuclear fission in power plants, but the ambition and pride push them to another cutting edge: hot nuclear fusion (HNF).

Since early 50, scientists from USA, UK and Soviet Union were granted for researches in mastering HNF as a highly efficient and clean energy source.

A short description of HNF is absolutely necessary for further evaluation. Nuclear fusion means a nuclear reaction of small atomic nuclei producing greater ones. As a general rule for fusion reactions at different level of organization of the matter (for instance crystallization at atomic level and polymerization at molecular level), these reactions release a specific energy. Basic experiments consist in fusion of nuclei of hydrogen isotopes (hydrogen, deuterium and tritium) resulting tritium and/or helium nuclei, sometimes protons

and neutrons and an energy of the resulted particles estimated to exceed many times the energy released by carbon combustion as reported to the reaction mass.

BUT, there are some serious theoretical and technical aspects making HNF projects as unrealistic and highly dangerous. Let us review some of them.

HNF is achieved only if the initial nuclei are heated at temperatures with the order of magnitude of hundreds of millions of Celsius degrees (several times hotter than the Sun core). For instance, in H-bomb this was realized by an A-bomb. In these conditions it results that: (i) the mass of reaction (grams) must be heated by receiving a very focused energy in short time (very high power); (ii) the reaction must be concentrated (confined) in a restricted volume in view both to receive the initial energy and dissipate the resulted energy in controlled conditions; (iii) HNF is a discontinuous reaction, i.e. the reaction has a cycle ((1/million) of a second) after which the reactor is depleted and refilled again.

Roughly speaking, it results that the efficiency of a power plant based on HNF consists in the ratios $Q = (\text{output energy}/ \text{input overall consumed energy})$ and $q = (\text{reaction cycle}/\text{overall maintenance cycle})$, so that a realistic power plant based on HNF should have $Q > 1$ and $q \sim 1$ in safe conditions.

After continuous and intensive researches in different countries (UK, France, Germany, Russia, Japan, USA, etc.) during almost 50 years, these basic conditions have not reached yet and the expenses of these efforts were estimated at tens of billions of US\$. For instance the HNF experiments in JET (Joint European Torus) achieved the highest values of $Q=0.7$ in 1997, by considering only the energy consumed for warming up the initial reactants, but a huge energy was consumed for overall experiment.

On 21 November 2006 governments of European Community represented by EURATOM, and other 6 countries (China, India, Japan, Korea, Russian Federation and USA) have signed an agreement establishing that HNF is a priority and necessary investment as a clean energy source and decided to invest at very beginning 10 billions € in a new research center at Cadarache (near Marseille in France) and nominated the Japanese nuclear scientist Kaname Ikeda as the Director General. This International Thermonuclear Experimental Reactor ITER (www.iter.org) will run at least 35 years and will cost probably other 50 billions €

The most significant aspect of this project is the fact that countries being under political and economical competition yet, have put together huge resources for a common project in pretty transparent conditions and this is a solid reason of globalization. The bad aspect of this event is the deep economic recession driving desperate actions. Let us remember the similar project begun in Texas in '90 and abandoned after two years of huge expenses. George Bush senior has chose that the war in Golf is much more profitable.

Scientists wish to reproduce at very small scale the processes from active stars like our Sun. BUT, mankind accumulated a lot of other similar experimental

data demonstrating that the nature and amplitude of reactions for the same composition of the reacting mass can be much different at different scales. This means that HFN at ITER scale certainly will be completely different than at Sun scale. However, this project must go on, even the results will not satisfy initial expectations, but certainly these will astonish the humanity contributing to the change of his mentality.

1989 was an important year in the world history: iron curtain between west and east fell opening the new era of globalization. In March 1989 scientific world was shocked by the experimental report of Fleishmann and Pons concerning nuclear fusion of hydrogen in resulting heavier isotopes (mostly deuterium) and a considerable energy by using a simple electrolysis device. This cold nuclear fusion (CNF) has triggered a burst of experiments and comments. BUT, the results showed low both of repeatability in the same laboratories and reproducibility in different laboratories [1]. Most of scientists and governments became skeptical concerning the existence of CNF phenomena. However, “*e pur si muove*”: the initial results of Fleishmann and Pons are real [2]!

CNF phenomenon was discovered since 17th century as natural processes in plants and animals. The most common and easy to demonstrate CNF is the calcium production for skeleton development in embryos resulting also the necessary energy for vital functions. Calcium balance in a living organism is not connected to direct intake of calcium by food, but with the **vital potential** driving calcium production by CNF which can not be mastered yet in artificial CNF experiments. Studies have shown that water is the basic raw substance in these natural CNF processes [3].

Human being is not able to master HNF and CNF processes in artificial conditions yet due to limits of his mentality.

It is the right time as human being takes care first of his mind and reconsiders natural laws in view to stop in time his extinction.

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[3] G. Dragan, "*Water – medium for natural nuclear transmutations*", The 3rd International Conference on Cold Fusion (ICCF-3), 21-25 October 1992, Nagoya, Japan.

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Sydney, 31 December 2006

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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
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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
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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 th SRH National Congress, 21-22 September 2004, Bucharest, Romania)	F
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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

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