Brief presentation for the general public, experts, laymen, decision makers, VIPs, and wealthy personalities

Information document about entirely novel energy technologies and other fundamentally new developments in science and technology

Funding call for an independent research facility



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Background and motivation of this information document

In recent years it has become more and more evident that several non-mainstream scientists, researchers and inventors have achieved significant results which are relevant for a positive evolution of mankind. The frontiers of the present established academic science are already crossed and the doors for fundamentally new developments are open, even if this is presently little known in public.

For example, nowadays we can proceed from the assumption that there are entirely novel and environmentally friendly energy technologies which are based on an extraction of usable energy from the so-called space energy, vacuum energy, zero point energy or free energy (see pages 6 – 8, 13, 15 for references and links). This kind of energy is everywhere present in huge amounts, on earth as well as in the universe. Energy technologies which tap this kind of energy do not need any fuels, are emission-free and provide usable energy at any place and any time ...



Background and motivation of this information document

These entirely novel energy technologies are able to replace all conventional energy conversion devices like combustion engines, nuclear power plants, wind power, hydroelectric energy, and solar power. These entirely novel energy technologies allow a decentralized and emission-free power supply for dwelling houses, buildings, factories, cities and villages, i.e. transmission lines are not needed anymore and can be removed from the landscape. Cars, trains, ships, airplanes and space ships, which are equipped with these entirely novel energy or propulsion technologies, do not need any fuels and produce no exhaust gases. Electric trains do not need contact wires anymore.

The realization of the existence of the everywhere present space energy, vacuum energy or zero point energy and the realization that there are technologies which can tap this kind of energy may represent an intellectual or psychological challenge, for laymen as well as for professional scientists and engineers (see pages 20 and 21 for some helpful elucidations). It is a paradigm shift in science, technology and consciousness which triggers a global revolution ...



Background and motivation of this information document

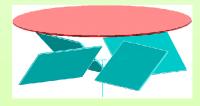
To substantiate the statements on pages 3 and 4 we refer on the following pages 6 – 13 to some significant achievements which recently emerged from non-mainstream science, namely important research results, novel technologies which are ready for prototype development or production, and novel energy technologies which are already commercially available ...



Significant results from non-mainstream science – Example 1 An experiment of fundamental relevance by Prof. C. W. Turtur

That experiment shows in a convincing manner the feasibility of the extraction of usable energy from the everywhere present space energy, vacuum energy or zero point energy. The essential part of thist experiment consists of a mechanical rotor which is located in an electrostatic field. The mechanical output power was relatively small, about 150 nW. However, it was clearly demonstrated that the total input power, i.e. the electric power loss to maintain the electrostatic field, was significantly smaller, about 3 nW. There are concepts how to increase the output power significantly, especially via magnetic fields, and a funding for further research and development is highly desirable.

For further information see www.ostfalia.de/cms/de/pws/turtur/FundE and http://public.rz.fh-wolfenbuettel.de/~turtur/physik/Vacuum-energy_popular_English.pdf





Significant results from non-mainstream science – Example 2 Entirely novel electromagnetic generators from the company Lutec

This fundamentally new energy technology taps the everywhere present space, vacuum, or zero point energy. Their present prototypes provide an output power of the order of 1 kW. A Lutec generator was tested and verified by SGS, an established and leading inspection, testing, verification and certification company.

For further information see www.lutec.com.au and www.lutec.com.au/other/SGS_Report.pdf or www.scribd.com/doc/35649775/SGS-Report-Lutec-Australia-Free-Energy-Device





Significant results from non-mainstream science – Example 3

Entirely novel electromagnetic generators developed by Prof. L. I. Szabo

This fundamentally new energy technology taps the everywhere present space, vacuum, or zero point energy.

400 Million US Dollar has been spent for 20 years research and development to create novel and large electromagnetic generators for power plants. Several large electromagnetic generators with a power output in the MW range are presently upder construction and it is intended to put some of these into



Image: www.gammamanager.com

under construction and it is intended to put some of these into operation in 2012.

Also smaller generators with a power output up to 50 kW were developed.

For further information see • www.gammamanager.com • Abstract of a talk of L. I. Szabo at the Congress "150 years Nikola Tesla" in 2006: www.novam-research.com/resources/EBM.pdf • A report from 2007 about this technology (in German): www.borderlands.de/net_pdf/NET0107S4-14.pdf • Pages 25 and 26 in the issue "November / Dezember 2009" of the "NET-Journal" (in German) • Abstract of a talk given by L. I. Szabo at the congress "Neue Technologien im Einsatz" in November 2009 (in German): www.novam-research.com/resources/EBM2.pdf • Pages 23 and 24 in the issue "Maerz / April 2010" of the "NET-Journal (in German) • Company TransAltec AG (in German): www.transaltec.ch/facma/view.php?view=Produkte



Significant results from non-mainstream science – Example 4

A. Rossi's low energy nuclear reactor: An entirely novel energy technology

This device, also called cold fusion reactor or E-Cat, generates a large amount of heat when hygrogen gas, nickel metal powder and an undisclosed catalyst are combined. The heat energy results from a little understood low energy nuclear reaction (LENR) whereby nickel is transmuted into copper. Only small amounts of nickel and hydrogen are consumed, about 200 g nickel per year with respect to a power of 10 kW. This energy technology is emission-free, radioactive materials are not involved and radioactive waste is not produced. The first commercial 1 MW power plant (300 × 4 kW units) and a worldwide commercial rollout of this energy technology is scheduled for this year (installation costs about 2000 Euro per 1 kW).



Image:

http://rossicoldfusion.com

Andrea Rossi demonstrated the 10 kW heat generating device at an Italian press conference on 14 January 2011

For further information see www.rossicoldfusion.com, www.peswiki.com/index.php/News:Rossi Cold Fusion and www.defkalion-energy.com and paper "Generalized Theory of Bose-Einstein Condensation Nuclear Fusion for Hydrogen-Metal System" by Yeong E. Kim, Purdue Nuclear and Many Body Theory Group 9 (PNMBTG) Preprint PNMBTG-6-2011 (June 2011): www.physics.purdue.edu/people/faculty/yekim/BECNF-Ni-Hydrogen.pdf



Significant results from non-mainstream science – Example 5 Global Scaling – a new knowledge and holistic approach in science

Large potential to create novel and advantageous technologies such as

- Novel or more effective ways of power generation
- Transmission of energy and data without electromagnetic pollution
- Transmission of data and communication with an unique level of security

Examples of already existing and running demonstration models which are ready for prototype development or production:

- Data transmission system with an unique level of security
- Satellite-independent positioning system which also works in closed rooms and below the surface of the earth
- Water splitting system which generates hydrogen and oxygen with significant less power than conventional electrolyzers

 An already commercially available product is "ProtoLight" – a special light source for medical applications such as accelerated wound healing

Funding for further research and development is highly desirable.



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Significant results from non-mainstream science – Example 6 tirely novel and commercially available electric energy technology

Entirely novel and commercially available electric energy technology "Fostac Maximus"

Once installed into the electric circuit of a building such as a dwelling house or an industrial facility, this device neutralizes electromagnetic pollution and diminishes the consumption of electric energy from the power grid by the generation of electric energy via an entirely novel technology. For downstream loads there is a physically and financially measurable decrease of the consumption from the power grid by 10 – 30 percent. Standard devices are available for main fuses from 40 to 1250 Ampere. More than 10.000 devices are already in use.



mage. www.fostac-technologies.ch/images/produkte/maximus_p40_gr.jpg

For further information see www.fostac-international.com and www.fostac-international.com/en/docs/wissenswertes/was-geschieht-mit-elektronen_engl.pdf



Significant results from non-mainstream science – Example 7

Entirely novel and commercially available fuel saving device "Drion Power"

This device, once installed into the combustion engine of a car or another fuel-driven machine, reduces the fuel consumption by 8 – 15 percent in a physically and financially measurable manner. More than 5.000 devices are already in use, about 1.500 of them in trucks.



Image: www.drionpower.de

For further information (in German) see • www.drionpower.de • www.drionheat.de

- Page 11 in the issue "November / Dezember 2009" of the "NET Journal"
- www.borderlands.de/net pdf/NET1108S4-8.pdf



Significant results from non-mainstream science – Example 8

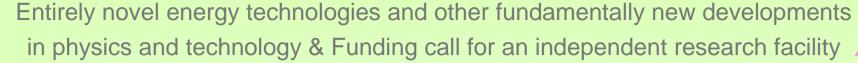
A few established industrial companies have already started to discuss and contemplate about unconventional technologies

At the European aerospace company EADS an internal meeting about unconventional energy and propulsion technologies took place on 21 March 2011 in Hamburg (Germany). Invited external speakers were Dipl. Ing. A. Schneider from the Swiss Association for Space Energy SVR, TransAltec AG and NET-Journal, and Prof. Dr. C. W. Turtur who has performed a convincing experiment of fundamental relevance (see page 6). A report about this meeting is published in the NET-Journal (in German): www.borderlands.de/net_pdf/NET0311S25-32.pdf



Funding call for an independent research facility Background and motivation of this call

The recent achievements presented on the previous pages embody the beginning of a new era in science and technology. To make the entire potential of these fundamentally new areas in science and technology beneficial for the whole mankind, more research and development is required. Until now there is no appropriate support in this field and therefore it is obvious to call for an independent research facility. Invited for its funding are especially wealthy and courageous women and men who want to make a difference. The intention of this facility is to set a vital and powerful example which will contribute to a global paradigm shift in science, technology and consciousness, and to a positive evolution of mankind. Its concrete purpose is the implementation of research and development in the field of an extended physics and technology, ranging from fundamental research to construction and testing of prototypes. This implies the creation of a frame which supports a free, independent, highly creative and truly innovative research. 14





Funding call for an independent research facility Examples of areas of research and development

with references and links

Entirely novel energy technologies which are based on an energy extraction from the everywhere present space, vacuum or zero point energy, novel electronic transitions in atoms, low energy nuclear reactions, or other advanced concepts. They are environmentally friendly and are able to replace all conventional energy technologies. See e.g.

- Miscellaneous companies with various concepts and technologies: www.gammamanager.com www.lutec.com.au www.terawatt.com
 www.steorn.com/orbo
 www.chavaenergy.com
 www.chavaenergy.com
 www.defkalion-energy.com
 Brief description about the
 Field Force Machine from IEM Nova: www.novam-research.com/resources/Field-Force-Machine_IEM-Nova_2010.pdf
- Various technologies, projects, associations, groups, individuals and journals: www.keppemotor.com www.vakuumenergie.de
 www.newenergymovement.org
 www.theorionproject.org
 www.dvr-raumenergie.de
 www.svrswiss.org
 (in German)
 www.borderlands.de/inet.jrnl.php3

(in German): /www.borderlands.de/net_pdf/NET0311S25-32.pdf



Funding call for an independent research facility Examples of areas of research and development

with references and links

- Searching for room temperature superconductors. For further information see the presentation www.novam-research.com/resources/Research_Project_Room_Temperature_Superconductors.pdf
- Accelerated decay of radioactive nuclei for a riskless utilization of nuclear waste.
 See e.g. (in German): www.transaltec.ch/facma/view.php?view=Projekte
- Global Scaling a new knowledge and holistic approach in science. See page 10 and
 - Global Scaling Research Institute: www.global-scaling-institute.de
 An introduction into Global Scaling, the so-called Global Scaling Theory Compendium, can be downloaded from www.global-scaling-institute.de
 Some relevant papers by H. Mueller, S E Shnoll et al., and V. A. Panchelyuga: www.ptep-online.com/index_files/2010/PP-22-10.PDF, www.ptep-online.com/index_files/2010/PP-20-10.PDF, www.global-scaling-institute.de/files/shnoll1998.pdf, www.global-scaling-institute.de/files/rotating_collimator.pdf, www.global-scaling-institute.de/files/rotating_collimator.pdf, www.global-scaling-institute.de/files/rotating_collimator.pdf, www.global-scaling-institute.de/files/rotating_collimator.pdf, www.global-scaling-institute.de/files/2007/PP-10-11.PDF
- ECE Theory the unified field theory of M. W. Evans. See www.aias.us

Vol. 6, No. 2 (2010), pages 1 – 4: www.worldsci.org/pdf/abstracts/abstracts_5440.pdf

- (Extended) Quantum Theory of Burkhard Heim. See e.g. www.heim-theory.com and <a href="www.heim-t
- Brown's gas a special gas with many extraordinary and useful features

 See e.g. the paper by C. Eckman published in the Proceedings of the National Philosophy Alliance (NPA),



Funding call for an independent research facility Examples of areas of research and development

with references and links

- Subtle matter. See e.g. www.ismr.eu "Experimental Evidence of a New Type of Quantized Matter with Quanta as Integer Multiples of the Planck Mass" by K. Volkamer and C. Streicher in Apeiron 6 (1999) 63 82: http://redshift.vif.com/JournalFiles/Pre2001/V06NO1PDF/V06n1vol.pdf "Detection of dark matter radiation of stars during visible sun eclipses" by K. Volkamer in Nuclear Physics B / Proceedings Supplements 124 (2003) 117 127
- So-called Hadronic Mechanics / Physics / Mathematics, an extension of quantum mechanics for extended particles, non-local, non-linear and non-potential interactions.

See e.g. www.i-b-r.org/Hadronic-Mechanics.htm and www.i-b-r.org/ir00019a.htm

- Subquantum physics / kinetics. See e.g. "The Electric Charge and Magnetization Distribution of the Nucleon: Evidence of a Subatomic Turing Wave Pattern" by P. A. La Violette in the International Journal of General Systems 37 (2008) 649 676: www.starburstfound.org/downloads/physics/nucleon.pdf
- Advanced space propulsion. See e.g. "To the stars" by W. B. Scott in Aviation Week & Space Technology from March 1 (2004) 50: www.earthtech.org/press/2004.03_aviation_week.pdf and "Spacetime Physics and Advanced Propulsion Concepts" by W. Droescher & J. Hauser in AIAA (American Institute of Aeronautics and Astronautics) 2006 4608:
 www.hpcc-space.com/publications/documents/AIAA2006-4608LetterExtndVersionRevisedSept.pdf
- Extended physics and holistic life science, e.g. consciousness research, subtle energies and fields, and influence of human thoughts and intentions on matter and events. See e.g. www.ismr.eu www.tcm.phy.cam.ac.uk/~bdj10



Funding call for an independent research facility Capital expenditure

Estimated capital expenditure for start-up and the first few years: Looking at the aims, intentions and areas of research and development, an amount of the order of 50 Million Euro seems to be reasonable.

For comparison:

- 400 Million US Dollar has been spent for 20 years research and development to create novel electromagnetic generators. This fundamentally new energy technology was developed by Prof. L. I. Szabo and rests upon an extraction of the everywhere present space or vacuum energy. For further information see page 8.
- The Perimeter Institute for Theoretical Physics was founded in 2000 by a donation of 100 Million Canadian Dollar from Mike Lazaridis.
 In 2008 he added a further donation of 50 Million Canadian Dollar.
 For further information see www.perimeterinstitute.ca



Closing words

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A positive evolution of mankind and earth does not come about solely by scientific and technological progress, but requires rather the development of the "qualities of the heart" such as compassion, peace, unconditional love, dignity, freedom, tolerance ...





Appendix 1 – Entirely novel energy technologies: A few more insights

Maybe the following elucidations are helpful to gain a better understanding of the entirely novel energy technologies.

The so-called empty space, vacuum or quantum vacuum is by no means empty but comprises a huge amount of energy and potentialities. Please note that even any manifestations of matter, such as the earth or the human body, consists more than 99.9 % of vacuum. This because the atoms, the building blocks of all material manifestations, are constituted more than 99.9 % of vacuum. The building blocks of the atoms are particles which are called electrons, protons and neutrons, but they occupy only less than 0.1 % of the atomic volume.

The features and true nature of the empty space, vacuum or quantum vacuum is mainly unexplored. However, it seems to be the very basis, source, root, substratum or medium on which our universe or world depends. Its energy content, or energy density (energy per volume), is incredible large and the energy needs of mankind is tiny compared with this.

Most probably all particles, fields and manifestations of matter arise from the quantum vacuum or can be considered as special (oscillation) states of the quantum vacuum. Therefore all material manifestations such as technical devices are intimately interwoven with the quantum vacuum.



Appendix 1 – Entirely novel energy technologies: A few more insights

Also conventional energy technologies are devices which are intimately interwoven with the quantum vacuum but in total they do not extract usable energy from it. In total they just convert the energy of a supplied fuel (matter, kinetic energy of moving matter, or radiation) into another form of energy.

However, under special conditions, which are realized in some unconventional devices, it is possible to convert or extract usable energy from the quantum vacuum. In this case the supply of any fuel is not needed anymore.

In other words:

Many physical processes which usually imply in total no gain of energy can be designed or modified in such a way that they provide usable energy from the quantum vacuum. Examples of such physical processes are the mutual motion of magnets or magnetic fields, the splitting of water H_2O into hydrogen H_2 and oxygen H_2 and their recombination to water H_2O , and the splitting of hydrogen molecules H_2 into hydrogen atoms H_2 and their recombination into molecular hydrogen H_2 .

Entirely novel energy technologies and other fundamentally new developments in physics and technology & Funding call for an independent research facility



Appendix 2 - About the author

- Born 1962 in Bremen (Germany). 1983 1989: Study of physics at the University of Heidelberg (Germany)
- 1989 1992: Doctoral thesis in the department of Dr. J. Georg Bednorz at the IBM Zurich Research
 Laboratory (Switzerland). Doctorate / PhD at the University of Zurich in 1991. Field of work: Synthesis of
 oxides especially in crystalline form via the melt and study of their properties, solid state chemistry / physics.
- 1992 1997: Research scientist in the nickel metal hydride technology department of Dr. Uwe Koehler at
 the research center of the battery company VARTA (Germany). Two months stay as guest scientist in
 Tokyo (Japan) at the TOSHIBA Battery Company within a collaboration between VARTA und TOSHIBA.
 Field of work: Hydrogen storage alloys and nickel metal hydride batteries.
- 1997 2007: Research scientist in the department of Prof. Dr. Jochen Mannhart at the Institute of Physics of the University of Augsburg (Germany). Field of work: Setting up a new laboratory, synthesis of oxides – especially in crystalline form via the melt – and study of their properties, solid state chemistry / physics.
- 2005: Participation in an overall 13 day course in Global Scaling lectured by Dr. Hartmut Mueller at the Global Scaling Research Institute (Germany).
- 2007 2010: Freelance work, autonomous occupation with subjects in the area of (an extended) physics / science, and creation and updating of several presentations and papers
 Creation and updating of the website www.novam-research.com with the aim to disseminate information, presentations, papers and links about fundamentally new developments in science and technology such as entirely novel energy technologies
- Since January 2011: Research scientist in the group of Prof. Dr. Nicola Spaldin at the Department of Materials
 of the ETH Zurich (Switzerland): www.theory.mat.ethz.ch/people/senior_scientists/lfrank. Field of work: Setting up a new laboratory, synthesis of oxides and study of their properties, crystal growth via the melt, solid state chemistry / physics
- Miscellaneous: Author / Co-author of 70 scientific publications which are listed in the following link: <u>www.novam-research.com/resources/Publications.pdf</u>
 Participation in several congresses and meetings about entirely novel energy technologies in Germany, Switzerland, Austria and Hungary
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