

Presentation for the general public, scientists, engineers,  
decision makers, and wealthy personalities

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

**&**

**Funding call for an independent research facility**

Image: [www.ecat.com](http://www.ecat.com)



Version 83 from 1 January 2017

Dr. Frank Lichtenberg / Physicist  
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Image:  
[www.bsmhturk.com](http://www.bsmhturk.com)

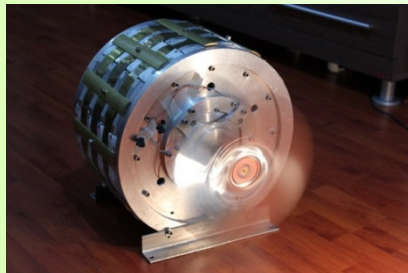


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This presentation can be downloaded as pdf with clickable links  
(file size about 1 MB):

[www.novam-research.com/resources/information-document.pdf](http://www.novam-research.com/resources/information-document.pdf)

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- Introduction and entirely novel energy technologies
- Examples of significant results from non-mainstream science
  - 1) ECAT power plants
  - 2) Energy technologies from the company Brilliant Light Power
  - 3) Power plants from the company Rosch Innovations
  - 4) The cryogenic magnet motor of Walter Thurner
  - 5) The magnet motor of Muammer Yildiz
  - 6) Electromagnetic generators from the company Gamma Manager Kft
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## Content overview 2 / 2

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developments in physics, science and technology

# Introduction and entirely novel energy technologies ...

## Introduction

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 an enjoyable evolution of mankind.

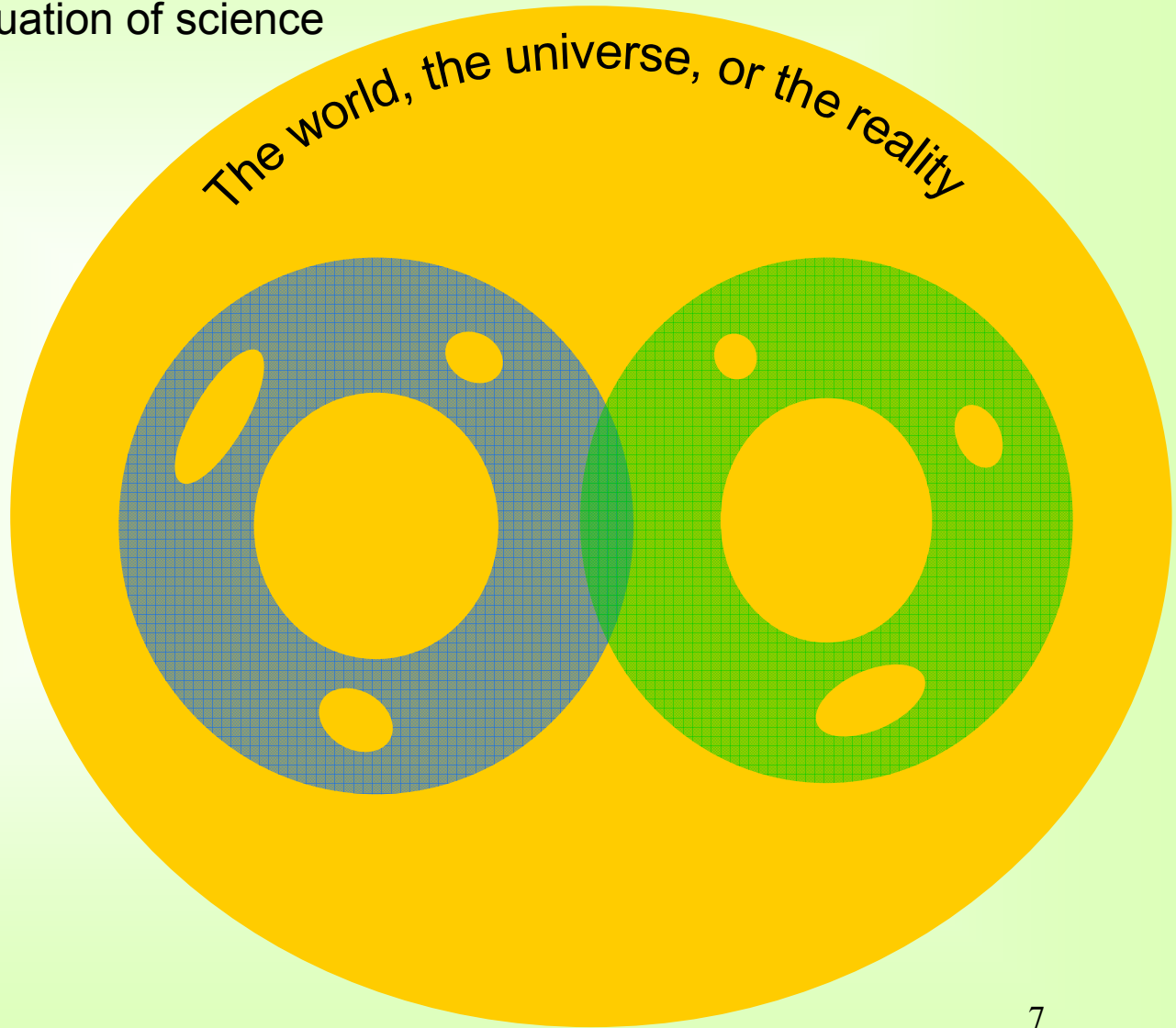
The frontiers of the established academic science are already crossed and the doors for fundamentally new developments are open, even if this is still little known in public. The present situation of science is sketched on the following page ...

### A sketch of the current situation of science

Research field of established academic science

Research field of non-mainstream science. Implemented mainly by private funding and / or unpaid work as well as by secret projects like military research

The scientifically unexplored



There are many remarkable results from non-mainstream science. For example, nowadays we can proceed from the assumption that there are entirely novel and environmentally friendly energy technologies which can be divided into two groups ...



## **Entirely novel energy technologies – Type 1 of 2**

Type 1 This type of fundamentally new energy technologies needs only small amounts of a specific kind of matter or fuel and provides large amounts of usable energy. These technologies are based on Low Energy Nuclear Reactions (LENR) or novel electronic transitions in atoms. Two examples are presented on pages 14 and 15

## **Entirely novel energy technologies – Type 2 of 2**

### **Type 2 Self-running systems, generators, and power plants**

This type of fundamentally new energy technologies does not need anything from the outside and can provide nevertheless usable energy. The existence of these technologies and other considerations indicate that there is a hitherto unexplored form of energy. We assume that there is everywhere on earth and in the universe an abundant form of energy which is called space energy, vacuum energy, zero point energy, ether energy, or space-time energy. Energy technologies which tap this form of energy do not need any fuels, are emission-free and provide usable energy at any place and time. Further information, examples, references and links are presented on pages 16 - 25 and in the appendices 1 – 4

## **Entirely novel energy technologies**

They are able to replace all conventional energy conversion devices like combustion engines, nuclear power plants, wind power, hydroelectric energy, and solar power. The entirely novel energy technologies allow a decentralized and emission-free power supply for dwelling houses, buildings, factories, cities and villages. Thus long transmission lines are not needed anymore and they 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 ...

## **Entirely novel energy technologies**

The recognition of the existence of these fundamentally new energy technologies and their physical foundations may represent an intellectual or psychological challenge, for laymen as well as for professional scientists and engineers. It represents a paradigm shift in science, technology and consciousness.

To substantiate the statements on this and the previous pages we refer on the following pages to some examples of significant achievements which recently emerged from non-mainstream science ...

Examples of significant achievements which recently emerged from non-mainstream science ...

## Significant results from non-mainstream science • Example 1

### Low energy nuclear reactors ECAT – An entirely novel type 1 energy technology

The ECAT technology is based on Low Energy Nuclear Reactions (LENR). However, in contrast to conventional nuclear technologies, radioactive materials are not involved, radioactive waste is not produced, and generated weak gamma rays can easily be shielded. ECAT reactors generate a large amount of heat energy when small amounts of hydrogen, special nickel powder and an undisclosed material are combined. About 1 percent of the annual world nickel production is sufficient to provide the energy needs of mankind. The first-generation 1 MW power plants generate heat energy in form of hot water with a temperature up to 120 °C. They are appropriate for industrial heating and cooling applications. Their COP is 6, i.e. the generated heat energy is 6 times higher than the electric energy which is required to operate the ECAT power plant (COP = Coefficient Of Performance). The second-generation ECAT, also called high temperature ECAT or Hot ECAT, generates heat energy in form of hot water with a temperature above 120 °C or high temperature steam. It is appropriate for industrial heating applications or an efficient conversion into electricity. Its COP is 6 or higher. The series production of ECAT power plants is in preparation, a certification process is underway, and the first-generation ECAT power plants can already be pre-ordered. For further information and links see [www.ecat.com](http://www.ecat.com)



Image: [www.ecat.com](http://www.ecat.com)

- [www.novam-research.com/resources/ECAT.pdf](http://www.novam-research.com/resources/ECAT.pdf)
- [www.e-catworld.com](http://www.e-catworld.com)

## Significant results from non-mainstream science • Example 2 Brilliant Light Power – An entirely novel type 1 energy technology

The company Brilliant Light Power Inc. ([www.brilliantlightpower.com](http://www.brilliantlightpower.com)) (formerly Black Light Power Inc.) has developed an entirely novel and environmentally friendly energy technology. It is called SunCell and generates large amounts of usable electric energy from small amounts of water. It is assumed that this is based on electronic transitions from the well-known ground state of hydrogen into lower states, called hydrino states, which were previously unknown or experimentally not accessible. On 21 November 2013 Black Light Power Inc. was honored by the New Jersey Technical Council with the Trail-blazer award. The website [www.brilliantlightpower.com](http://www.brilliantlightpower.com) comprises also books about the so-called Grand Unified Theory of Classical Physics (GUT-CP) of Dr. Randell L. Mills. Among others, this theory assumes that the electron in an atom consists of a complex spherical two-dimensional pattern of (super)currents which gives rise to the well-known features of the electron such as the electron spin. The website [www.brilliantlightpower.com](http://www.brilliantlightpower.com) contains also information about the computational software “Millsian” which is based on the GUT-CP and represents a molecular modeling tool.



Image: [www.brilliantlightpower.com](http://www.brilliantlightpower.com)

Scientific paper: High-power-density catalyst induced hydrino transition (CIHT) electrochemical cell, R. Mills et al., International Journal of Hydrogen Energy 39 (2014) 14512 - 14530:  
<http://dx.doi.org/10.1016/j.ijhydene.2014.06.153>

Video of a roadshow by Dr. Randell L. Mills on 16 December 2016 in London (UK) about the SunCell technology and the Go-To-Market strategy:  
<https://www.youtube.com/watch?v=CtA4FdRrCkY&feature=youtu.be>



## Significant results from non-mainstream science • Example 3

### Kinetic power plants from Rosch – An entirely novel type 2 energy technology

The company Rosch Innovations ([www.rosch.ag](http://www.rosch.ag)) has developed so-called kinetic or buoyancy power plants which generate usable electric energy. These self-running and zero-emission power plants consist of a water column which contains a chain drive, fillable containers which are attached at the chain drive, a valve system which can fill the containers with air, an electrically-operated compressor which produces compressed air, an electric generator, and a control unit. We assume that these power plants tap via the earth's gravitational field and the electromagnetic fields within the electric generator the everywhere present space / vacuum energy. Potential industrial customers can request a visit at a Rosch site nearby Cologne in Germany where a self-running 60 kW pilot plant can be demonstrated. Rosch offers mainly industrial size power plants with an output power of 200 kW - 100 MW. Several industrial size power plants are at the planning state. The start of the construction phase was so far delayed or prevented by various financial issues. Further information:

[1] [www.novam-research.com/rosch-gaia-kinetic-power-plant.php](http://www.novam-research.com/rosch-gaia-kinetic-power-plant.php)

[2] Report in the German-language NET-Journal (ISSN 1420-9292), issue May / June 2016, pages 6 - 9:

[www.borderlands.de/net\\_pdf/NET0516S6-9.pdf](http://www.borderlands.de/net_pdf/NET0516S6-9.pdf) (in German)



Image from Ref. 2

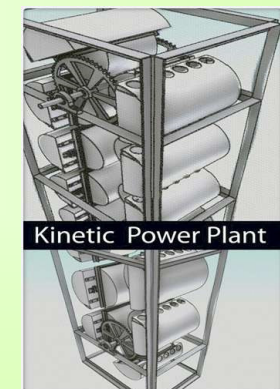


Image: [www.rosch.ag](http://www.rosch.ag)



## Significant results from non-mainstream science • Example 4 Magnet motor of Walter Thurner – An entirely novel type 2 energy technology

The cryogenic magnet motor of the German engineer and inventor Walter Thurner is a nice example of a self-running system because its operation principle is published and comprehensible at the macroscopic scale. It can be understood just by considering the acting forces which operate in its design. The magnet motor of Walter Thurner is described in appendix 1. We assume that it extracts at the microscopic scale via magnetic fields usable energy from the everywhere present space energy or vacuum energy



Images: [www.walter-thurner.de/magnet.pdf](http://www.walter-thurner.de/magnet.pdf)



## Significant results from non-mainstream science • Example 5

### Magnet motor of Muammer Yildiz – An entirely novel type 2 energy technology

The self-running magnet motor of the Turkish inventor Muammer Yildiz comprises a special array of permanent magnets. We assume that the Yildiz Motor taps via magnetic fields the everywhere present space / vacuum energy. A self-running prototype was presented at the Eindhoven University of Technology in the Netherlands in April 2009 and at the University of Delft in the Netherlands in May 2010:

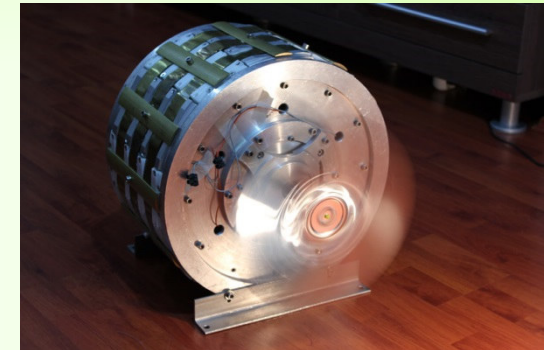


Image: [www.bsmhturk.com](http://www.bsmhturk.com)

<https://www.youtube.com/watch?v=mHW6b1aFPfU> . Dr. J. L. Duarte from the Department of Electrical Engineering of the Eindhoven University of Technology in the Netherlands has written two brief and interesting papers "Introducing the Yildiz Motor" and "Modeling the Yildiz Motor": [http://novam-research.com/resources/Introducing-and-modeling-the-Yildiz-Motor\\_v01.pdf](http://novam-research.com/resources/Introducing-and-modeling-the-Yildiz-Motor_v01.pdf) . Website about the Yildiz Motor: [www.bsmhturk.com](http://www.bsmhturk.com) . Report about the Yildiz Motor in the May / June 2010 issue of the NET-Journal (in German): [www.borderlands.de/net\\_pdf/NET0510S21-26.pdf](http://www.borderlands.de/net_pdf/NET0510S21-26.pdf) . The Yildiz motor was also presented at 41th inventor fair in Geneva in Switzerland, see a report on page 12 in the May / June 2013 issue of the NET-Journal (in German): [http://www.borderlands.de/net\\_pdf/NET0513S4-14.pdf](http://www.borderlands.de/net_pdf/NET0513S4-14.pdf)

## Significant results from non-mainstream science • Example 6

### Electromagnetic EBM generators – An entirely novel type 2 energy technology

We assume that this fundamentally new energy technology, also called EBM, taps via electromagnetic fields the everywhere present space or vacuum energy. 400 Million US Dollar has been spent for 20 years research and development to create novel prototypes of electromagnetic generators. Subsequently it was intended to establish, together with customers, industrial size self-running electromagnetic generators with a power output in the MW range. Also smaller generators were developed. In their website they offer presently (May 2016) self-running generators with an output power from 50 kW to 20 MW and mention that smaller / larger systems down to 1,5 kW / up to 75 MW are under development.



Image: [www.gammamanager.com](http://www.gammamanager.com)

EBM website and video: [www.gammamanager.com](http://www.gammamanager.com) and

[www.youtube.com/watch?v=-6MDHF39XmU&feature=player\\_embedded](http://www.youtube.com/watch?v=-6MDHF39XmU&feature=player_embedded) . In February 2007 the author of this presentation was a member of a group who has visited the main inventor of this technology, Prof. L. I. Szabo, at his laboratory and company in Budapest in Hungary

Further information: [www.transaltec.ch](http://www.transaltec.ch) (in German) • Abstract of a talk of L. I. Szabo at the Congress “150 years Nikola Tesla” in 2006: [www.novam-research.com/resources/EBM.pdf](http://www.novam-research.com/resources/EBM.pdf) • A report from 2007 about this technology (in German): [www.borderlands.de/net\\_pdf/NET0107S4-14.pdf](http://www.borderlands.de/net_pdf/NET0107S4-14.pdf) • Pages 25 and 26 in the issue Nov / Dec 2009 of the NET-Journal (ISSN 1420-9292) (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](http://www.novam-research.com/resources/EBM2.pdf)

• Pages 23 and 24 in the issue March / April 2010 of the NET-Journal (ISSN 1420-9292) (in German)



## Significant results from non-mainstream science • Example 7

### Electromagnetic Tewari generator – An entirely novel type 2 energy technology

The Indian engineer and researcher Paramahansa Tewari has developed new concepts in physics and a so-called reactionless electromagnetic generator which extracts usable energy from the vacuum. So far a generator with 1,7 kW input power and 4,4 kW output power was constructed and tested (3 phase 220 V AC, 50 Hz).

Depending on the availability of funds, the next intended step is the development of a self-running 10 kW or 15 kW generator and / or a commercial 50 kW machine starting with 250 % efficiency. References and further information:

[www.tewari.org](http://www.tewari.org) • Presentation from Paramahansa Tewari and Toby Grotz, lectured by Toby Grotz on 11 September 2016 in Germany: [www.novam-research.com/resources/Tewari-generator\\_Physics\\_Teslas-prophecy\\_P-Tewari-and-T-Grotz\\_2016\\_v2.pdf](http://www.novam-research.com/resources/Tewari-generator_Physics_Teslas-prophecy_P-Tewari-and-T-Grotz_2016_v2.pdf) • Two German-language reports on pages 35 - 37 in the issue November / December 2015 of the NET-Journal (ISSN 1420-9292): [www.borderlands.de/net\\_pdf/NET1115S35-36.pdf](http://www.borderlands.de/net_pdf/NET1115S35-36.pdf) (in German) and [www.borderlands.de/net\\_pdf/NET1115S37.pdf](http://www.borderlands.de/net_pdf/NET1115S37.pdf) (in German). In the second report the operation principle is sketched. It is based on a design which diminishes the counter-electromotive force (back EMF)

• Video from a test of the reactionless electromagnetic generator (RLG) and comments by Toby Grotz: <https://vimeo.com/190251670> • Paramahansa Tewari, his new concepts in physics, and his reactionless electromagnetic generator are part of the movie Out of the Void, see the following press release: [http://novam-research.com/resources/PRESS-RELEASE\\_Movie\\_Out-of-the-Void.pdf](http://novam-research.com/resources/PRESS-RELEASE_Movie_Out-of-the-Void.pdf)

The movie Out of the Void has been released and can be purchased for viewing or download

via <https://vimeo.com/ondemand/outofthevoid>

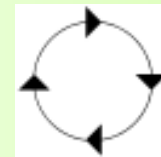


Image: [www.tewari.org](http://www.tewari.org)

**Significant results from non-mainstream science • Example 8**  
**AIAS – An affiliation of several physicists who have created a large number of papers and books about the so-called ECE Theory which provides evidence for entirely novel type 2 energy technologies**

The ECE Theory and the Alpha Institute for Advanced Studies (AIAS) was established by the British Civil List physicist Prof. M. W. Evans. The ECE Theory represents an unified field theory which was and is advanced by him and other scientists on a mainly voluntary basis. Among others, the ECE Theory implies

- that gravitation is related to the curvature of space-time
- that electromagnetism is related to the torsion of space-time
- a coupling between gravitation and electromagnetism
- an extended electrodynamics which involves the possibility to extract usable energy from space-time



$$R q_{\mu}^a = -k T q_{\mu}^a$$

Evans Field Equation

Images: [www.aias.us](http://www.aias.us)

For further information see the official AIAS website [www.aias.us](http://www.aias.us)

Are entirely novel energy technologies and self-running generators really genuine and why does it take so long to make them tangible and commercially available ? ...

## **Are entirely novel energy technologies and self-running generators really genuine ?**

Some are really genuine and some are not. The author of this presentation assumes to the best of his knowledge and belief that the previously presented systems are real (examples 1 - 7)

In case of systems which are not really genuine there are two cases:

- Fraud – i.e. the communicated or presented specifications of the system were never achieved and are intentionally wrong
- The researchers / developers / inventors were convinced that the created system is really working, e.g. because the measured electric output power is larger than the electric input power. Later it was revealed that this was a fallacy and the previous conclusion had to be withdrawn, e.g. because the power measurement was not correct

Often it requires intuition, an ability to discriminate, or a careful and time-consuming inspection in order to decide if a system works really as specified or assumed

## **Why does it take so long to make entirely novel energy technologies and self-running generators tangible and commercially available ?** 1 / 2

Examples of reasons why it takes so long or longer than expected:

- The number of people who are aware of / work in the area of / support / believe in these technologies is still relatively small - but constantly growing
- Lack of appropriate or continuous support and funding
- Disagreement between researchers / inventors and investors
- Sometimes inventors do not want to spread their invention (for various reasons) or have unrealistic financial expectations
- There are lobbies who try to suppress the emergence of these technologies
- Inappropriate communication of the invention or project



## **Why does it take so long to make entirely novel energy technologies and self-running generators tangible and commercially available ?** 2 / 2

- The time needed for
  - research and development
  - the development of a prototype which is suitable for serial production
  - establishing a serial productionis often underestimated
- Long-term performance and safety tests may reveal some issues which require some modifications of the system
- In several cases the customer, facility, or company where an entirely novel energy technology is installed does not communicate that publicly (for various reasons)
- In several cases the customer does not want to purchase but wants to lease a power plant. Then it has to be discussed if the manufacturer is willing and able to establish such an option

Another example of significant achievements which recently emerged from non-mainstream science ...

## Significant results from non-mainstream science • Example 9

### Keppe Motor – A novel highly efficient, cool running and brushless electric motor

The Keppe Motor concept is based on the principles outlined in the book “The New Physics - Derived from a Disinverted Metaphysics“ by the independent physics researcher Dr. Noberto R. Keppe. According to Keppe energy doesn't come from matter, the process is actually the opposite, meaning that matter comes from a previous, primary energy called Essential Energy, which is infinite and exists everywhere in the entire universe. See also page 52. The Keppe motor technology can be adapted to all conventional electric motors worldwide at competitive costs and brings the efficiency of industrial three-phase motors to single-phase domestic home appliances. There is already a commercially available product which is equipped with a Keppe Motor, namely a ceiling fan “Universe Turbo” (see picture on the right) which saves up to 90 % energy. Also available is a Keppe Motor Kit (present version and price is 1.4 and 195 USD, respectively). References and further information: [www.keppemotor.com/institucional/?lang=en](http://www.keppemotor.com/institucional/?lang=en)  
A German-language report about the Keppe technology is published on pages 9 and 10 in the issue July / August 2014 of the NET Journal (ISSN 1420-9292)

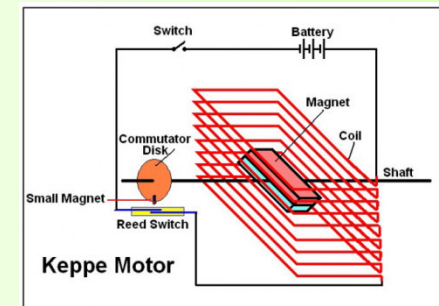


Image: [www.energeticforum.com/renewable-energy/19744-about-window-motor-keppe-motor.html](http://www.energeticforum.com/renewable-energy/19744-about-window-motor-keppe-motor.html)



Images: [www.keppemotor.com](http://www.keppemotor.com)

# Funding call for an independent research facility ...

## **Funding call for an independent research facility 1 / 4**

### 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 for example wealthy and courageous women and men who want to make a difference. The intention of that facility is to set a vital and powerful example which will contribute to a global paradigm shift in science, technology and consciousness, and to an enjoyable evolution of mankind. Its concrete purpose is the implementation of research and development in the field of an advanced 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. In this context we refer also to the Institute of Venture Science which was proposed by Prof. Dr. G. H. Pollack (University of Washington) and recently established: [www.theinstituteforventurescience.net](http://www.theinstituteforventurescience.net)

## **Funding call for an independent research facility 2 / 4**

### Examples of areas of research and development 1 / 2

- Entirely novel and environmentally friendly energy technologies which are based on an extraction of usable energy from the everywhere present space / space-time / vacuum / zero point energy, low energy nuclear reactions, or novel electronic transitions. For references and links see pages 5 – 25 and appendices 1 – 4
- Searching for room temperature superconductors. For a reference and link see appendix 4
- Accelerated decay of radioactive nuclei for a riskless waste management of nuclear waste. For references and links see appendix 4
- Global Scaling – A holistic approach in science. For references and links see appendix 4
- ECE Theory – The unified field theory of Prof. M. W. Evans  
For further information see page 21

## **Funding call for an independent research facility 3 / 4**

### Examples of areas of research and development 2 / 2

- (Extended) Quantum Theory of Burkhard Heim. For references and links see appendix 4
- Brown's gas – A special gas with many extraordinary and useful features  
For a reference and link see appendix 4
- Subtle matter. For references and links see appendix 4
- Subquantum physics / kinetics. For references and links see appendix 4
- Advanced space propulsion. For references and links see appendix 4
- 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. For references and links see appendix 4

## Funding call for an independent research facility 4 / 4

### 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 100 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 usable energy from the everywhere present space or vacuum energy. For further information see page 19
- 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](http://www.perimeterinstitute.ca)



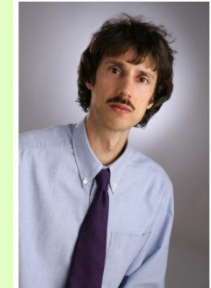
Closing words & About the author ...

## Closing words

An enjoyable 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, dignity, freedom, tolerance ...



## About the author of this presentation



- Born **1962** in Bremen (Germany). **1983 – 1989**: Study of physics at the University of Heidelberg (Germany)
- **1989 – 1992**: Doctoral thesis in the division 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 physical and structural properties.
- **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 and synthesis of oxides – especially in crystalline form via the melt – and study of their physical and structural properties.
- **2005**: Participation in an overall 13 - day course in Global Scaling lectured by Hartmut Mueller nearby Munich (Germany).
- **2007 – 2010**: Freelance work, autonomous occupation with subjects in the area of (an extended or advanced) physics / science, and creation of several presentations and papers • Creation of the website [www.novam-research.com](http://www.novam-research.com) about entirely novel and environmentally friendly energy technologies and other fundamentally new developments in science and technology.
- **Since 2011**: Research scientist in the division of Prof. Dr. Nicola Spaldin at the Department of Materials of the ETH Zurich (Switzerland): [www.theory.mat.ethz.ch/people/person-detail.html?persid=178061](http://www.theory.mat.ethz.ch/people/person-detail.html?persid=178061) and [www.theory.mat.ethz.ch/lab.html](http://www.theory.mat.ethz.ch/lab.html) **Field of work**: Setting up a new laboratory, synthesis of oxides – especially in crystalline form via the melt – and study of their physical and structural properties, and teaching. A pdf presentation about the lab for the synthesis and study of oxides and related topics can be downloaded via the following link (file size at least 34 MB): [www.theory.mat.ethz.ch/lab/presentation1.pdf](http://www.theory.mat.ethz.ch/lab/presentation1.pdf)
- **Miscellaneous**: Author / Co-author of about 70 scientific publications which are listed in the following link: [www.novam-research.com/resources/Publications.pdf](http://www.novam-research.com/resources/Publications.pdf) • Participation in several congresses and meetings about entirely novel energy technologies in Germany, Switzerland, Austria and Hungary • Participation in a two-day seminar “The Universal Order in Sacred Geometries“ lectured by Dr. Stephen M. Phillips in England in November 2014
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Phone +41 43 539 95 68 • [www.novam-research.com](http://www.novam-research.com)

## Appendix 1

The cryogenic magnet  
motor of Walter Thurner ...

## The cryogenic magnet motor of Walter Thurner 1 / 6

The cryogenic magnet motor of the German engineer and inventor Walter Thurner is a nice example of a self-running system because its operation principle is published and comprehensible at the macroscopic scale. It can be understood just by considering the acting forces which operate in its design

The cryogenic magnet motor of Walter Thurner is described (in German), for example, in the following links:

(a) [www.walter-thurner.de/magnet.pdf](http://www.walter-thurner.de/magnet.pdf) (in German)

(b) [www.borderlands.de/net\\_pdf/NET0308S4-10](http://www.borderlands.de/net_pdf/NET0308S4-10) (in German). This article about Walter Thurner is published in the German-language journal NET-Journal, issue March / April 2008, pages 4 - 10. The cryogenic magnet motor is described on pages 8 and 9

## **The cryogenic magnet motor of Walter Thurner 2 / 6**

An example of an embodiment of Walter Thurner's idea is sketched on the following page in Fig. 1 and Fig. 2. His concept implies a linear or especially a circular array of magnets. One of such a magnet (1) is sketched in Fig. 1 and Fig. 2. Another magnet (3) is attached to a rod (4) which is connected with a shaft (5) so that the magnet (3) can move above (1). The sketched arrangement of the magnets (1) and (3) results in a motion of (3) towards the edge of (1). A repulsion arises between (3) and (1) when (3) approaches the edge of (1) and an attraction occurs when (3) goes away from (1). Thus at the edge of (1) the magnetic forces act against the direction of motion of (3). That corresponds to a conventional or conservative system without any self-running motion

## The cryogenic magnet motor of Walter Thurner 3 / 6

Sketch of an example of an embodiment of Walter Thurner's idea from [www.walter-thurner.de/magnet.pdf](http://www.walter-thurner.de/magnet.pdf) (in German)

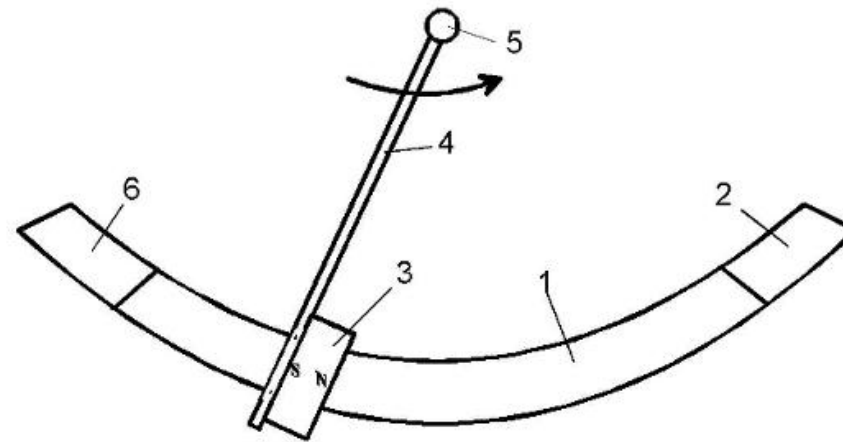


Fig. 1

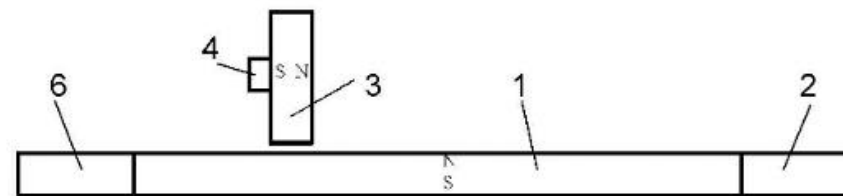


Fig. 2

## The cryogenic magnet motor of Walter Thurner 4 / 6

Walter Thurner's concept enables a self-running motion of the movable magnet (3) because strong diamagnets (6,2) are placed at the edges of the magnet (1). The strong diamagnets (6,2) are realized by high- $T_c$  superconductors such as  $\text{YBa}_2\text{Cu}_3\text{O}_{6.9}$  which is superconducting at the temperature of liquid nitrogen (77 K). Thus Walter Thurner's device requires a cooling by liquid nitrogen. The strong diamagnet, for example (2), generates an induced magnetic field whose direction is opposite to the external field of the magnets (1) and (3) and thus it attenuates / shields / modifies the magnetic fields / forces of and between (1) and (3) at the edge of (1). Therefore (3) can leave the edge of (1) in a non-decelerated way. If (3) approaches then the edge of another magnet of the type (1), then the strong diamagnet (6) attenuates or shields the repulsive force between (3) and (1) so that (3) crosses the edge of (1) in a non-decelerated manner. Thus a circular array of several units of the type (6)(1)(2) leads to a self-running and self-accelerating motion of the movable magnet (3) from one magnet (1) to another. An increase of the effect can be achieved when not only one but more movable magnets of the type (3) are used. For example, several magnets of the type (3) can be placed on or in a rotating disc. The self-running and self-accelerating motion implies a generation of usable energy. For example, the rotating shaft (5) can propel an electric generator



## The cryogenic magnet motor of Walter Thurner 5 / 6

**Safety note:** If the described device is constructed properly, then it is self-running and self-accelerating. Without appropriate measures the speed of rotation can increase continuously until the device does fly apart ! That is of course very dangerous and indeed it did happen with a constructed prototype ! Fortunately nobody was injured during that event. Pictures from components of the prototype before its self-destruction are shown on the right. The visible holes in the lower picture allow a supply of liquid nitrogen. A renewed construction of this device requires the development of appropriate measures which limit and control the speed of rotation !



Images: [www.walter-thurner.de/magnet.pdf](http://www.walter-thurner.de/magnet.pdf)



## **The cryogenic magnet motor of Walter Thurner 6 / 6**

The cryogenic magnet motor of Walter Thurner represents a nice example of a self-running system which can generate usable energy. Its operation principle appears comprehensible. Once it is understood one has an idea how a self-running system can work concretely, at least at the macroscopic scale. Devising a self-running system by considering the existing macroscopic forces does not require to know the source of the generated energy. Nevertheless, it is of course an interesting question from where the generated energy comes from. We assume that self-running devices imply at the subatomic level an extraction of usable energy from the everywhere present space energy or vacuum energy via physical fields such as magnetic fields

## Appendix 2

Another entirely novel energy technology:  
Self-running ram pumps ...

## Self-running ram pumps

So-called ram pumps are special mechanical constructions which are operated with water or under water. They generate usable mechanical, electric or thermal energy. Self-running ram pumps were, for example, constructed and advanced by the Russian inventor Dr. V. Marukhin and his co-workers. Their autonomously running ram pumps are already in use at some undisclosed industrial customers. Some information and links about ram pumps:

Website in Russian and English: [www.innovenergy.org](http://www.innovenergy.org)

Video: <https://yadi.sk/d/9CN509gHhoWgq>

Paper from Adolf Schneider (in German):

[www.borderlands.de/Links/BeschreibungResonanzwidderAS051115.pdf](http://www.borderlands.de/Links/BeschreibungResonanzwidderAS051115.pdf)

We assume that self-running ram pumps extract usable energy from the everywhere present space energy or vacuum energy via the earth's gravitational field which acts on the water or via electromagnetic fields that act at the atomic level between or on water molecules. Possibly there are some similarities between self-running ram pumps and the self-running kinetic or buoyancy power plants from the company Rosch Innovations which are presented on page 16

## Appendix 3

Reflections about self-running systems, generators and power plants ...

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## Reflections about self-running systems, generators and power plants 1 / 8

Maybe the following model considerations are helpful to gain a better understanding of this type of entirely novel energy technologies.

We assume that the so-called empty space or vacuum is by no means empty but comprises a huge amount of energy and potentialities. Please note that all 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 ...

## Reflections about self-running systems, generators and power plants 2 / 8

The features and true nature of the so-called empty space, vacuum, or space-time are mainly unexplored by mainstream science.

Nevertheless, it seems to be the very basis, source, root, substratum or medium on which our universe or world depends. This substratum or medium is sometimes also called ether. Let`s assume that the energy content of the space / space-time / vacuum / ether is incredible large and that the energy needs of mankind is tiny compared with this.

Let`s suppose that all particles and thus all atoms and manifestations of matter arise from the space / space-time / vacuum / ether or can be considered as special oscillation or vortex states of the space / space-time / vacuum / ether [1] ...

[1] See, for example, [www.tewari.org](http://www.tewari.org) and papers by Paul LaViolette about subquantum kinetics such as [www.starburstfound.org/downloads/physics/nucleon.pdf](http://www.starburstfound.org/downloads/physics/nucleon.pdf)



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## Reflections about self-running systems, generators and power plants 3 / 8

Then all material manifestations such as technical devices are intimately interwoven with the space / space-time / vacuum / ether. Also conventional energy technologies are devices which are intimately interwoven with the space / space-time / vacuum / ether but in total they do not extract usable energy from it. In total they convert the energy of a supplied fuel (matter, kinetic energy of moving matter, or radiation) into another form of energy.

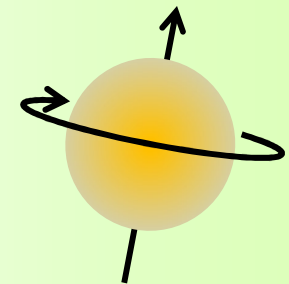
However, under special conditions, which are realized in some unconventional devices, it is possible to convert or extract usable energy from the space / space-time / vacuum / ether. In this case the supply of any fuel is not needed anymore ...

## Reflections about self-running systems, generators and power plants 4 / 8

Many or perhaps all 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 space / space-time / vacuum / ether. Examples of such physical processes are the mutual motion of magnets or magnetic fields, oscillating and rotating mechanical movements of masses within the earth`s gravitational fields, the splitting of water  $H_2O$  into hydrogen  $H_2$  and oxygen  $O_2$  and their recombination into water  $H_2O$  , and the splitting of hydrogen molecules  $H_2$  into hydrogen atoms  $H$  and their recombination into molecular hydrogen  $H_2$  . For these examples of physical processes we assume that usable energy can be extracted from the space / space-time / vacuum / ether energy via magnetic, electric and / or gravitational fields but not from the fields. In established physics the gravitational, electric and magnetic fields are termed as so-called conservative force fields, i.e. a motion in a closed loop does not lead to a gain of energy. An unconventional device which extracts usable energy from the space, space-time, vacuum, or ether can probably be considered as a system which implies a closed-loop motion in a non-conservative force field ...

## Reflections about self-running systems, generators and power plants 5 / 8

Perhaps the intrinsic angular momentum or spin of particles such as the electron plays an important role at the extraction of usable energy from the space / space-time / vacuum / ether. Possibly the space / space-time / vacuum / ether itself comprises an intrinsic angular momentum, torque, or spin so that the spin of particles such as the electron is driven by or associated with the spin of the space / space-time / vacuum / ether [2]. Also the so-called ECE Theory [3] implies something similar. It is called torsion of space-time and predicts the possibility of extracting usable energy from space-time ...



- [2] See, for example, the following video and paper from The Resonance Project Foundation: [www.youtube.com/watch?v=QJOBnoqk\\_0Q](http://www.youtube.com/watch?v=QJOBnoqk_0Q) and <http://de.scribd.com/doc/38637585/Nassim-Haramein-The-origin-of-spin>

- [3] [www.aias.us](http://www.aias.us)

## Reflections about self-running systems, generators and power plants 6 / 8

Further related statements are the following, cited from [www.tewari.org](http://www.tewari.org) in April 2016:

A century from now, it will be well known that: the vacuum of space which fills the universe is itself the real substratum of the universe; vacuum in a circulating state becomes matter; the electron is the fundamental particle of matter and is a vortex of vacuum with a vacuum-less void at the center and it is dynamically stable; the speed of light relative to vacuum is the maximum speed that nature has provided and is an inherent property of the vacuum; vacuum is a subtle fluid unknown in material media; vacuum is mass-less, continuous, non viscous, and incompressible and is responsible for all the properties of matter; and that vacuum has always existed and will exist forever.

Then scientists, engineers and philosophers will bend their heads in shame knowing that modern science ignored the vacuum in our chase to discover reality for more than a century.

Paramahansa Tewari, Reactionless AC Synchronous Generator (RLG)

Note: The author of this presentation does not agree with the statement that the speed of light relative to vacuum is the maximum speed that nature has provided

## Reflections about self-running systems, generators and power plants 7 / 8

Another interesting considerations are the following, cited from the concepts or new physics of Dr. Noberto R. Keppe (see [www.keppemotor.com/institucional/?lang=en](http://www.keppemotor.com/institucional/?lang=en) and [www.novam-research.com/keppe.php](http://www.novam-research.com/keppe.php)):

In N. R. Keppe's terminology the space energy is called Essential Energy. It is an organizing energy which forms and keeps the universe on all levels and is constituted of two components, attraction and repulsion. According to N. R. Keppe, energy does not come from matter, the process is actually the opposite, meaning that matter comes from the Essential Energy which is infinite and exists everywhere in the entire universe. Matter is created by a resonance of space energy and atoms are considered as vortices. If electricity is generated by conventional technologies, then this corresponds only to one component of the Essential Energy. This is the cause of the low efficiency and heat losses (entropy) in conventional electric systems. From the perspective of the Essential Energy the common AC current does not represent a real alternating current. Both AC and DC correspond only to one direction or component of the Essential Energy. The "real" AC current is found in a pulsed DC current which comprises two components of the Essential Energy, namely action and complementation (instead of action and reaction).

The concepts of N. R. Keppe lead to the development of a novel, highly efficient, cool running, and brushless electric motor. This so-called Keppe Motor is already used in a commercially available product, see page 27

## **Reflections about self-running systems, generators and power plants 8 / 8**

So far we have considered the hypothesis that self-running systems are based on an extraction of usable energy from an assumed and everywhere present form of energy which is called space energy, space-time energy, vacuum energy, ether energy or zero point energy. We note that the terms “vacuum energy” and “zero point energy” are also known and used in established science. However, in this presentation the terms “space / space-time / vacuum / ether / zero point energy” mean or imply much more than the terms “vacuum / zero point energy” in established science, see for example the considerations on the previous page. Of course, much more research is necessary to clarify the many open questions in this field.

It is also conceivable that self-running systems are based on a hypothetical internal process that converts matter into energy according to the Einstein`s mass-energy equivalence  $E = m c^2$ . However, the author of this presentation considers this scenario as less likely.

## Appendix 4

References and links about entirely novel energy technologies and other fundamentally new developments in physics, science and technology ...



## References and links about entirely novel energy technologies 1 / 9

### Some relevant papers and publications 1 / 2

Introducing the Yildiz Motor and Modeling the Yildiz Motor, J. L. Duarte:

[http://novam-research.com/resources/Introducing-and-modeling-the-Yildiz-Motor\\_v01.pdf](http://novam-research.com/resources/Introducing-and-modeling-the-Yildiz-Motor_v01.pdf)

Conversion of the Vacuum Energy of Electromagnetic Zero Point Oscillations into Classical Mechanical Energy, C. W. Turtur, The General Science Journal (2009):

[www.wbabin.net/physics/turtur1e.pdf](http://www.wbabin.net/physics/turtur1e.pdf)

Introducing the Practice of Asymmetrical Regauging to Increase the Coefficient of Performance of Electromechanical Systems, M. Walters et al. (2005): [http://novam-research.com/resources/M-Walters-et-al\\_Asymmetrical-Regauging-to-increase-COP-21343253.pdf](http://novam-research.com/resources/M-Walters-et-al_Asymmetrical-Regauging-to-increase-COP-21343253.pdf)

Classical Electrodynamics without the Lorenz Condition: Extracting Energy from the Vacuum, P. K. Anastasovski et al. , published in Physica Scripta 61 (2000) 513:

[www.aias.us/documents/mwe/omniaOpera/omnia-opera-563.pdf](http://www.aias.us/documents/mwe/omniaOpera/omnia-opera-563.pdf)

Extracting Energy and Heat from the Vacuum, D. C. Cole and H. E. Puthoff,

Physical Review E 48 (1993) 1562: [www.earthtech.org/publications/PREv48\\_1562.pdf](http://www.earthtech.org/publications/PREv48_1562.pdf)

## References and links about entirely novel energy technologies 2 / 9

### Some relevant papers and publications 2 / 2

Simulations of resonances in the homopolar generator, H. Eckardt (February 2012):

[www.novam-research.com/resources/Homopolar-Generator\\_Simulation-of-resonances\\_Paper-by-H-Eckardt.pdf](http://www.novam-research.com/resources/Homopolar-Generator_Simulation-of-resonances_Paper-by-H-Eckardt.pdf)

Presentation by A. Schneider from the Swiss Association for Space Energy about technologies which are based on magnetic fields (in German but some slides are in English):

[www.novam-research.com/resources/MagnetmotorenSVR-Tagung2011B.pdf](http://www.novam-research.com/resources/MagnetmotorenSVR-Tagung2011B.pdf)

An article about an extended theory of electromagnetism by D. Schadach (in German):

[http://novam-research.com/resources/Extended-Theory-of-Electromagnetism\\_D-Schadach.pdf](http://novam-research.com/resources/Extended-Theory-of-Electromagnetism_D-Schadach.pdf)

Papers by P. LaViolette about subquantum kinetics such as

[www.starburstfound.org/downloads/physics/nucleon.pdf](http://www.starburstfound.org/downloads/physics/nucleon.pdf) which is published in the International Journal of General Systems 37 (2008) 649 - 676

An introduction and overview on Low Energy Nuclear Reactions (LENR), also called cold fusion:

[www.marwan-chemie.de/html\\_research/lenr\\_energy.html](http://www.marwan-chemie.de/html_research/lenr_energy.html)

Further papers can be found in the following links:

[www.novam-research.com/energy1.php](http://www.novam-research.com/energy1.php) and [www.novam-research.com/em.php](http://www.novam-research.com/em.php)

## References and links about entirely novel energy technologies 3 / 9

Some companies with various concepts and technologies 1 / 2

<a href="http://www.rosch.ag">www.rosch.ag</a>	Self-running kinetic power plants
<a href="http://www.e-cat-deutschland.de">www.e-cat-deutschland.de</a> (in German)	Distribution of kinetic power plants from rosch.ag
<a href="http://www.gammamanager.com">www.gammamanager.com</a>	Self-running electromagnetic generators called EBM
<a href="http://www.novam-research.com/platinum-invests-group.php">www.novam-research.com/platinum-invests-group.php</a>	Self-running electromagnetic generators
<a href="http://www.quantumpowermunich.de">www.quantumpowermunich.de</a>	Extracting usable energy from the vacuum
<a href="http://www.brilliantlightpower.com">www.brilliantlightpower.com</a>	Energy from novel transitions in hydrogen atoms and Grand Unified Theory of Classical Physics of R. Mills

## References and links about entirely novel energy technologies 4 / 9

Some companies with various concepts and technologies 2 / 2

<a href="http://www.ecat.com">www.ecat.com</a>	LENR-based heat-generating power plants
<a href="http://www.lenr-cars.com">www.lenr-cars.com</a>	Cars driven by LENR-based energy technologies
<a href="http://www.lenr-cities.com">www.lenr-cities.com</a>	Concepts to promote LENR-based technologies
<a href="http://www.marwan-chemie.de">www.marwan-chemie.de</a>	LENR and electrochemistry
<a href="http://www.keppemotor.com">www.keppemotor.com</a>	Highly efficient and cold-running electric motors and new physics of N. R. Keppe
<a href="http://www.transaltec.ch">www.transaltec.ch</a> (in German)	Various technologies
<a href="http://www.searlmagnetics.com">www.searlmagnetics.com</a>	Special electromagnetic generators and motors
<a href="http://www.neutrino-inc.com">www.neutrino-inc.com</a>	Novel technology

## References and links about entirely novel energy technologies 5 / 9

Some institutes and foundations	
<a href="http://www.aesopinstitute.org">www.aesopinstitute.org</a>	Aesop Institute
<a href="http://www.earthtech.org">www.earthtech.org</a>	Earth Tech International – Exploring novel ideas in physics
<a href="http://www.keshefoundation.com">www.keshefoundation.com</a>	Keshe Foundation – Novel science and technologies
<a href="http://resonance.is">http://resonance.is</a>	Resonance Project Foundation
<a href="http://www.theinstituteforventurescience.net">www.theinstituteforventurescience.net</a>	Institute for Venture Science – Funding Promising Ideas that Challenge Conventional Thinking

## References and links about entirely novel energy technologies 6 / 9

Some associations	
<a href="http://www.aias.us">www.aias.us</a>	Alpha Institute for Advanced Studies (AIAS) about the so-called ECE Theory
<a href="http://www.erfinder-haus.de">www.erfinder-haus.de</a> (in German)	A German association for research and inventors
<a href="http://www.dvr-raumenergie.de">www.dvr-raumenergie.de</a> (in German)	German Association for Space Energy (DVR)
<a href="http://www.gaia-energy.org/tag/aukw">www.gaia-energy.org/tag/aukw</a> (in German)	Austrian Association GAIA
<a href="http://www.newenergymovement.org">www.newenergymovement.org</a>	New Energy Movement
<a href="http://www.oevr.at">www.oevr.at</a> (in German)	Austrian Association for Space Energy
<a href="http://www.svrswiss.org">www.svrswiss.org</a> (in German)	Swiss Association for Space Energy
<a href="http://www.safeswiss.ch">www.safeswiss.ch</a> (in German)	Swiss Study Group for Free Energy (SAFE)

## References and links about entirely novel energy technologies 7 / 9

### Miscellaneous

Website of Marcus Reid about vacuum energy and the Reid Cell: [www.vakuumenergie.de](http://www.vakuumenergie.de)

Website of the Austrian association PKS about the researchers Viktor Schauburger and Walter Schauburger: [www.pks.or.at](http://www.pks.or.at)

Information and links about low energy nuclear reactions (LENR):  
[www.novam-research.com/lenr.php](http://www.novam-research.com/lenr.php)



## References and links about entirely novel energy technologies 8 / 9

Websites of some individuals	
<a href="http://www.cheniere.org">www.cheniere.org</a>	Tom Bearden
<a href="http://thorstenludwig.de/indexengl.htm">http://thorstenludwig.de/indexengl.htm</a>	Dr. Thorsten Ludwig
<a href="http://jnaudin.free.fr">http://jnaudin.free.fr</a>	Jean-Louis Naudin
<a href="http://www.neutrino-schubart.com/">www.neutrino-schubart.com/</a> (in German)	Holger Thorsten Schubart
<a href="http://www.ostfalia.de/cms/de/pws/turtur/FundE">www.ostfalia.de/cms/de/pws/turtur/FundE</a>	Prof. Claus Turtur - appears in German but information in English are also available

## References and links about entirely novel energy technologies 9 / 9

### Some journals and books

Journal Infinite Energy: [www.infinite-energy.com](http://www.infinite-energy.com)

NET-Journal (in German, ISSN 1420-9292): [www.borderlands.de/inet.jrnl.php3](http://www.borderlands.de/inet.jrnl.php3) (in German)

German-language book “Raumenergie-Technik“ by Josef Gruber, October 2008,  
ISBN 978-3-89539-910-7

Comprehensive sources of information about various concepts, devices, and technologies

[www.borderlands.de](http://www.borderlands.de) (in German)

[www.free-energy-info.co.uk](http://www.free-energy-info.co.uk)

[www.peswiki.com](http://www.peswiki.com)

## References and links about other fundamentally new developments in physics, science, and technology

1 / 4

- Searching for room temperature superconductors  
See e.g. [www.novam-research.com/resources/Research\\_Project\\_Room\\_Temperature\\_Superconductors.pdf](http://www.novam-research.com/resources/Research_Project_Room_Temperature_Superconductors.pdf) (5 MB pdf)
- Accelerated decay of radioactive nuclei for a riskless nuclear waste management  
See e.g. (in German): Journal "NET-Journal" , issue November / December 2012, page 25 and 26
  - "Aktuelle Projekte" in [www.transaltec.ch](http://www.transaltec.ch) • Journal "raum & zeit" , issue 190, July / August 2014, page 44 - 48, article "Platonischer Körper neutralisiert Radioaktivität"
- Global Scaling - A holistic approach in science  
See e.g. [www.novam-research.com/global-scaling.php](http://www.novam-research.com/global-scaling.php) and the Global Scaling section in [www.novam-research.com/resources/Research\\_Project\\_Room\\_Temperature\\_Superconductors.pdf](http://www.novam-research.com/resources/Research_Project_Room_Temperature_Superconductors.pdf) (5 MB pdf) and [www.novam-research.com/resources/Chem-elements-and-number-3.pdf](http://www.novam-research.com/resources/Chem-elements-and-number-3.pdf) (1 MB pdf)
- (Extended) Quantum Theory of Burkard Heim  
See e.g. [www.heim-theory.com](http://www.heim-theory.com) and [www.hpcc-space.com/publications/documents/AIAA2006-4608LetterExtndVersionRevisedSept.pdf](http://www.hpcc-space.com/publications/documents/AIAA2006-4608LetterExtndVersionRevisedSept.pdf) (5 MB pdf)

## References and links about other fundamentally new developments in physics, science, and technology

2 / 4

- 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) 6 (2) (2010) 1 - 4: [http://novam-research.com/resources/C-Eckman\\_Paper-about-Browns-Gas\\_2010.pdf](http://novam-research.com/resources/C-Eckman_Paper-about-Browns-Gas_2010.pdf)
- Subtle matter  
See e.g. [www.youtube.com/watch?v=38C\\_bjVavAU](http://www.youtube.com/watch?v=38C_bjVavAU) (talk by Dr. Klaus Volkamer in German)
  - "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
  - German-language book "Die Feinstoffliche Erweiterung unseres Weltbildes" by Dr. Klaus Volkamer (4th edition, 2015). A part of the book's content is available via the following link (in German): [www.weissensee-verlag.de/autoren/Volkamer/Volkamer-209/Volkamer-9783899982091\\_kurz.pdf](http://www.weissensee-verlag.de/autoren/Volkamer/Volkamer-209/Volkamer-9783899982091_kurz.pdf)

## References and links about other fundamentally new developments in physics, science, and technology

3 / 4

- 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: [www.starburstfound.org/downloads/physics/nucleon.pdf](http://www.starburstfound.org/downloads/physics/nucleon.pdf) which is published in the International Journal of General Systems 37 (2008) 649 – 676

- Advanced space propulsion

See e.g. “Advanced space propulsion based on vacuum (spacetime metric) engineering” by H. E. Puthoff in JBIS 63 (2010) 82 - 89: [www.earthtech.org/publications/puthoff\\_jbis.pdf](http://www.earthtech.org/publications/puthoff_jbis.pdf)

- “To the stars” by W. B. Scott in Aviation Week & Space Technology from March 1 (2004) 50: [www.novam-research.com/resources/To-the-stars\\_W-B-Scott\\_Aviation-Week\\_2004.pdf](http://www.novam-research.com/resources/To-the-stars_W-B-Scott_Aviation-Week_2004.pdf)

- “Spacetime Physics and Advanced Propulsion Concepts” by W. Driescher & J. Hauser in AIAA (American Institute of Aeronautics and Astronautics) 2006 – 4608: [www.hpcc-space.com/publications/documents/AIAA2006-4608LetterExtndVersionRevisedSept.pdf](http://www.hpcc-space.com/publications/documents/AIAA2006-4608LetterExtndVersionRevisedSept.pdf) (5 MB pdf)

- Video about a concept of a superconducting levitation thruster developed by Dr. A. Nassikas: <https://www.youtube.com/watch?v=zTLkZ0jms3s> • [www.keshefoundation.com](http://www.keshefoundation.com)

**References and links about other fundamentally new developments in physics, science, and technology**

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- 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](http://www.i-b-r.org/Hadronic-Mechanics.htm) • [www.i-b-r.org/ir00019a.htm](http://www.i-b-r.org/ir00019a.htm)
- 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.theinstituteforventurescience.net](http://www.theinstituteforventurescience.net) • [www.noetic.org](http://www.noetic.org) • [www.tcm.phy.cam.ac.uk/~bdj10](http://www.tcm.phy.cam.ac.uk/~bdj10)
  - [www.keshfoundation.com](http://www.keshfoundation.com)