

Energy Extraction from the Vacuum Field

Compiled by Adolf Schneider, Nov. 16, 2009, **updated, Nov. 22, 2009, Jan. 15, 2010, Febr. 14, 2010**

Scientific Papers and Books

Anastasovski, P.K., et al: Classical Electrodynamics without the Lorentz Condition: Extracting Energy from the Vacuum, 2000 Phys. Scr. **61** 513-517 doi: [10.1238/Physica.Regular.061a00513](https://doi.org/10.1238/Physica.Regular.061a00513)

<http://www.iop.org/EJ/abstract/1402-4896/61/5/001>

<http://www.aias.us/documents/mwe/omniaOpera/omnia-opera-563.pdf>

Cole, Daniel C./Puthoff, Harold E.: Extracting energy and heat from the vacuum, Phys. Rev. B, vol.48, no.2, August 1993, p.1562, See also Fusion Facts 5, No. 3, 1 (1993)

http://www.earthtech.org/publications/PREv48_1562.pdf

Davis, E.W. / Puthoff, H.E.: "On extracting energy from the quantum vacuum," in M. G. Millis and E. W. Davis (eds.) Frontiers of Propulsion Science (American Institute of Aeronautics and Astronautics, Inc., Reston, VA, 2009) pp. 569-603.

Davis, H. E. / Puthoff, H.E.: "Experimental Concepts for Generating Negative Energy in the Laboratory," Space Technology and Applications International Forum (STAIF 2006), p. 1362 (2006).
http://www.earthtech.org/publications/davis_STAIF_conference_1.pdf

Davis, E.W./ Teofilo, V.L./Haisch, B./Puthoff, H.E./Nickisch, J.L./Rueda, A., and Cole D.C.: Review of Experimental Concepts for Studying the Quantum Vacuum Field, CP813 Space Technology and Applications International Forum , STAIF 2006, Edited by S.L. El-Genk, 2006 American Institute of Physics, 0-7354-0305-8/06 23 USD,
http://www.calphysics.org/articles/Davis_STAIF06.pdf
http://www.earthtech.org/reports/Davis_STAIF_Rev.Exper.Quant.Vac.Field.pdf

Forward, Robert L.: Extracting electrical energy from the vacuum by cohesion of charged foliated Conductors, Phys. Rev. B 30, 1700 - 1702 (1984) DOI: 10.1103/PhysRevB.30.1700
http://prola.aps.org/abstract/PRB/v30/i4/p1700_1

Forward, R.L. et al : Possibility of quantum vacuum fluctuation driven engines, NASA Breakthrough Propulsion Physics Projects (BPPP), 2004, <http://www.quantumfields.com/projects.htm> and
<http://www.grc.nasa.gov/WWW/bpp/>

Haisch, Bernard / Rueda, Alfonso (1999). "Toward an Interstellar Mission: Zeroing in on the Zero-Point-Field Inertia Resonance".[arXiv: 21 September 1999 physics/9909043](https://arxiv.org/abs/physics/9909043)[21 September 1999](https://arxiv.org/abs/physics/9909043).

Haisch, B. / Rueda, A. / Puthoff, H.E.: "Physics of the Zero-Point Field: Implications for Inertia, Gravitation and Mass," Spec. in Sci. and Technology 20, 99 (1997).
http://www.earthtech.org/publications/spec_sci_tech.pdf

Klimov, Victor I.: Energy from the Vacuum, see:

http://peswiki.com/index.php/Site:LRP:Victor_I._Klimov_-_%22Energy_From_The_Vacuum%22_-_Verification

Lee, T.D.: Particle Physics and Introduction to Field Theory, Harwood, New York, 1981, see „Chapter 25_Outlook : Possibility of Vacuum Engineering“, p. 824-828.

Ludwig, Thorsten: "Casimir force experiments with quartz tuning forks and an atomic force microscope (AFM)", 2008 J. Phys. A: Math. Theor. **41** 164025 (10pp)

Ludwig, Thorsten: "Advancement in Zero-Point Research", COFE 2, Sept. 23, 2006
<http://www.scribd.com/doc/18992613/ADVANCEMENTS-IN-ZERO-POINT-ENERGY-RESEARCH-with-Thorsten-Ludwig-PhD->

Maclay / Jordan, G. / Hammer, Jay / Clark, Rod / George, Michel / Kim, Yeong / Asit Kir, Asit:
Study of Vacuum Energy Physics for Breakthrough Propulsion. NASA/CR-2006-213311, 2004
<http://gltrs.grc.nasa.gov/reports/2004/CR-2004-213311.pdf>

Modell, Garret: Assessment of proposed electromagnetic quantum vacuum energy extraction methods, 30. Oct. 2009, arXiv:0910.5893v1
http://www.calphysics.org/articles/Moddel_VacExtrac.pdf
<http://arxiv.org/ftp/arxiv/papers/0910/0910.5893.pdf>

Puthoff, H. : "Casimir Vacuum Energy and the Semiclassical Electron," International Journal of Theoretical Physics 46, No. 12, pp 3005-3008 (Dec 2007).
<http://www.earthtech.org/publications/Puthoff%20-%20Int%20Theor%20Phys%2046%20-.pdf>

Puthoff, H.E. : "Casimir Vacuum Energy and the Semiclassical Electron," International Journal of Theoretical Physics (May 2007).
http://www.earthtech.org/publications/puthoff_casimir_electron.pdf

Puthoff, H. E.: Little, S. R.; and Ibison, M.: "Engineering the Zero-Point Field and Polarizable Vacuum for Interstellar Flight". *J. British Interplanetary Society* **55**: 137–144 (2002).
<http://arxiv.org/abs/astro-ph/0107316>

Puthoff, H.E.: "Can the Vacuum be Engineered for Spaceflight Applications? Overview of Theory and Experiments," *Jour. Sci. Exploration* **12**, 295 (1998).
http://www.earthtech.org/publications/JSEv12_295.pdf

Puthoff, H. E. : "Space Propulsion: Can Empty Space Itself Provide a Solution?" *Ad Astra* 9 (National Space Society), 42 (Jan/Feb 1997).

Puthoff, H. E. : "On the Feasibility of Converting Vacuum Electromagnetic Energy to Useful Form," Intern'l Workshop on the Zeropoint Electromagnetic Field," Cuernavaca, Mexico, March 29 - April 2, 1993.

Puthoff, H.E. : "Zero-Point Energy: An Introduction," *Fusion Facts* **3**, No. 3, 1 (1991).
http://www.earthtech.org/publications/fusion_facts.pdf

Puthoff, H.E.: "The Energetic Vacuum: Implications for Energy Research," *Spec. in Sci. and Technology* **13**, 247 (1990).
http://www.earthtech.org/publications/energetic_vacuum.pdf

Puthoff, H.E. : "On the Source of Vacuum Electromagnetic Zero-Point Energy," *Phys. Rev. A* **40**, 4857 (1989); Errata and Comments, *Phys. Rev. A* **44**, 3382, 3385 (1991).
http://www.earthtech.org/publications/PRAv40_4857.pdf
http://www.earthtech.org/publications/PRAv44_3382.pdf
http://www.earthtech.org/publications/PRAv44_3385.pdf

Putthoff, H.E.: (The energetic vacuum: implications for energy research. In: Aspden, H. (guest editor): Special Issue on Speculations in Energy. *Speculations in Science and Technology*, 13 (4) 247-257, 1990.

Roser, Joseph J. : Laboratory Scale Vacuum Energy Extraction Modeled Modeled on Weak Nuclear Force Reactions in a Spinning Black Hole System, ASA Breakthrough Propulsion Physics Workshop Proceedings, p. 289, <http://adsabs.harvard.edu/abs/1999bpp..work..289R>

Solomon, Dan: Some New Results Concerning the QFT Vacuum in the Heisenberg Picture, 2008
<http://redshift.vif.com/JournalFiles/V15NO2PDF/V15N2SOL.pdf>

Solomoan, Dan: On the existence of negative energy states in QED in the temporal gauge, Nov. 7, 2006, <http://arxiv.org/ftp/quant-ph/papers/0611/0611091.pdf>

<http://front.math.ucdavis.edu/author/D.Solomon> References to Solomon papers
http://peswiki.com/index.php/Site:LRP:BREAKTHROUGH_PHYSICS_SUSTAINS_BREAKTHROUGH_PO_WER more references to Solomon papers

Szili, Jean Z. : ZPE Extraction Circuit, 31. Jan. 2005, <http://www.rexresearch.com/szili/szili.htm>

Tseung, Lawrence: Cosmic Energy Machines, Oct. 25, 2007
<http://www.free-energy-info.co.uk/EnergyMachines.pdf>

Turtur, Claus Wilhelm: Conversion of the Vacuum-energy of Electromagnetic Zero-point Oscillations into Classical Mechanical Energy, Sept 14, 2009, living review, last version. siehe :
http://www.ostfalia.de/export/sites/default/de/pws/turtur/FundE/English/Schrift_03_englisch.pdf

Turtur, Claus Wilhelm: Conversion of the Vacuum-energy of electromagnetic zero point oscillations into Classical Mechanical Energy, The General Science Journal, ISSN 1916-5382 (5. Mai 2009). Im Internet abrufbar unter <http://wbabin.net/physics/turtur1e.pdf>

Turtur, Claus Wilhelm: Definite Proof for the Conversion of vacuum-energy into mechanical energy based on the measurement of machine power, PHILICA.COM, ISSN 1751-3030, Article number 155, (2. April 2009) http://philica.com/display_article.php?article_id=155

Turtur, Claus Wilhelm: Conversion of Vacuum Energy into Mechanical Energy under Vacuum Conditions, PHILICA.COM, ISSN 1751-3030, Article number 141, (3. Dez. 2008)

Turtur, Claus Wilhelm: A QED-model for the Energy of the Vacuum and an Explanation of its Conversion into Mechanical Energy, PHILICA.COM, ISSN 1751-3030, Article number 138, (4. Sept. 2008) http://philica.com/display_article.php?article_id=138

Turtur, Claus Wilhelm: Conversion of vacuum-energy into mechanical energy, The General Science Journal, ISSN 1916-5382 (5. Juni 2008). Im Internet abrufbar unter <http://wbabin.net/physics/turtur.pdf>

Turtur, Claus Wilhelm: A magnetic rotor to convert vacuum-energy into mechanical energy, PHILICA.COM, ISSN 1751-3030, Article number 130, (21. Mai 2008)

Turtur, Claus Wilhelm: Conversion of vacuum-energy into mechanical energy: Successful experimental Verification, PHILICA.COM, ISSN 1751-3030, Article number 124, (2. April 2008)
http://public.rz.fh-wolfsburg.de/~turtur/physik/Magn_Rotor_engl.pdf

Turtur, Claus Wilhelm: A Motor driven by Electrostatic Forces, PHILICA.COM, ISSN 1751-3030, Article number 119, (18. Februar 2008) http://philica.com/display_article.php?article_id=119

Turtur, Claus Wilhelm: Conversion of vacuum-energy into mechanical energy, The General Science Journal, ISSN 1916-5382 (5. Juni 2008). Im Internet abrufbar unter <http://wbabin.net/physics/turtur.pdf>

Valone, Tom: Feasibility study of zero-point energy extraction from the quantum vacuum for the performance of useful work, Integrity Research Institute (IRE), Washington, 2004,
http://209.85.129.132/search?q=cache:wQTYrLgZb8J:freeenergynews.com/Directory/Technology_Review/ZPE_Feasibility_Study_by_Tom_Valone.doc+vacuum+field+energy+extraction&cd=13&hl=de&ct=clnk&gl=ch

Walter, M. et.al.: Introducing the Practice of Asymmetrical Regauging to Increase the Coefficient of Performance of Electromechanical Systems, Center for Power Electronic Systems, Dep. Of Electrical and computer Engineering, Dep. Of Physics, North Carolina A & T State University, Greensboro, NC 27411 USA, see also :

http://nema-uqd.info/yahoo_site_admin/assets/docs/Walters_et_al_-_Asymmetrical_Regauging_to_increase_COP.21343253.pdf

Yam, Philip: Exploiting Zero-Point Energy, Scientific American Magazine, December 1997, pp. 82-85,
<http://www.padrak.com/ine/ZPESCIAM.html>

Popular Papers and Books

Bearden, Tom E. : On extracting electromagnetic Energy from the vacuum, CTEC, Inc. (and also Alpha Foundation's Institute for Advanced Study, 2311 Big Cove Road, Huntsville, Alabama 35801. USA
http://www.cheniere.org/techpapers/on_extracting_EM%20energy.htm

Bearden, Tom E: REGAUGING and Multivalued Magnetic Scalar Potential:Master Overunity Mechanisms, 1996, see: <http://www.explorepub.com/articles/beardon/overunity.html>

Bearden, Tom E: Use of Asymmetrical Regauging and Multivalued Potentials to Achieve Overunity Electromagnetic Engines, in „Journal of New Energy, 1(2), Summer 1996, p. 60-78.

Bearden, Thomas Eugene: Precursor Engineering and the Falsification of Modern Physics, Jan. 12, 2009 <http://www.theorionproject.org/en/documents/BeardenPrecursor.pdf>

Hathaway, G. (ed): Zero-point energy: A new prime mover ? Engineering requirements fore Energy production & propulsion from vacuum fluctuations. Proceedings of the 26th Intersociety Energy Conversion Engineering Conference (IECEC), August 4-9, 1991, Boston, Vol.4, 376-381., 1991a

Hathaway, G., ed.: An engineering introduction to vacuum energy. In: S.R.Elswick (ed.): Proceedings 1990 International Tesla Symposium. International Tesla Society, Colorado Springs 1991, 5-29 bis 5-50, 1991b.

King, M.B.: Progress and results in zero-point energy research. 27th Intersociety Energy Conversion Engineering Conference (IECEC) Proceedings, 4, 4.297-4.302. Society of Automotive Engineers, Warrendale, PA, 1992

King, M.B.: Tapping the zero-point energy as an energy source. 26th Intersociety Energy Conversion Engineering Conference (IECEC) Proceedings, 4, 364-369, 1991b.

King, M.B.: Can the zero-point energy be tapped as an energy source ? In: Aspden, H., guest editor (1990) Special Issue on Speculations in Energy. Speculations in Science and Technology, 13 (4) 259-266, 1990a.

King, M.B.: Tapping the Zero-Point Energy. Paraclete Publishing, Provo, UT, 1989.

Reid, Marcus Albert: The Concept of „Free Energy“, Research Laboratory for Vacuum Energy, <http://www.vakuumenergie.de/introduction.html>

Reid, Marcus Albert: Asymmetric Electric Systems : Basic Principle. Research Laboratory for Vacuum Energy, September 2009,
http://www.vakuumenergie.de/doc/Asymmetric_electric_systems.pdf

Reid, Marcus Albert: How vacuum energy and electric systems are related to each other, Research Laboratory for Vacuum Energy, April 2009,
<http://www.vakuumenergie.de/vacuum/Vacuumenergy.pdf>

Reid, Marcus Albert: The self-symmetrizing mechanism within electromagnetic

Systems, Research Laboratory for Vacuum Energy, March 2008,
<http://www.vakuumenergie.de/doc/Self-symmetrizing.pdf>

Reid, Marcus albert: Energy flow in a simple circuit and the interaction with the quantum vacuum, Research Laboratory for Vacuum Energy, September 2007
http://www.vakuumenergie.de/doc/Energy_flow_in_a_simple_circuit_and_its_interaction.pdf

Reid, Marcus albert: Coefficient of Performance and Efficiency, Research Laboratory for Vacuum Energy, January 2006
<http://www.vakuumenergie.de/doc/Coefficient%20of%20Performance%20and%20Efficiency.pdf>

Valone, Thomas: Practical Conversion of Zero Point Energy: Feasibility Study of Zero Point Energy Extraction from the Quantum Vacuum for the Performance of Useful Work Integrity Research Institute, 2005. ISBN 978-0-9641070-8-3

Valone, Thomas: Zero Point Energy, The fuel of the future, Integrity Research Institute, 2008. ISBN 978-0-9641070-2-1

Zsidarsnic, Frank : Overview, 1998
<http://www.angelfire.com/scifi2/zpt/index.html>

Patents:

Haisch, Bernhard/Moddel, Garret: Quantum vacuum energy extraction, 27. Mai 2008, US Patent #7,379,286 <http://www.zpenergy.com/modules.php?name=News&file=article&sid=2938>

Mead, Franklin B. / Nachamkin, Jack : „System for converting Electromagnetic Radiation Energy to Electrical Energy, „U.S. Patent No. 5,590,031, Dec. 31, 1996, see :
http://v3.espacenet.com/publicationDetails/originalDocument?CC=US&NR=5590031A&KC=A&FT=D&date=19961231&DB=EPDOC&locale=de_EP

Pinto, Fabrizio: US patents #6,650,527 and #6,665,167 #6,477,028
Fabrizio Pinto also founded the InterStellar Technologies Corporation for the investigation of the utilization of the energy of the vacuum: <http://www.interstellartechcorp.com/companyFabrizio.html>

Commercial Applications:

Jovion Corporation of Boulder aims to develop and commercialize a device for extracting energy from the reservoir of “zero point energy” that has been shown to fill all of space. The Jovion device would employ numerous Casimir cavities, consisting of closely spaced metal plates within which a range of electromagnetic modes are excluded due to quantization of the electromagnetic field. The harvested energy would be in the form of electromagnetic radiation and could in principle be converted directly into electrical power through the incorporation of solar cells. The POCi funding covers the design, construction and testing of a practical and scalable energy harvesting system. The funding is contingent on the satisfactory achievement of certain scientific proof of principle milestones relating to a prototype Casimir cavity device as described in a current research grant to Dr. Garret Moddel, Professor in CU-Boulder’s Department of Electrical and Computer Engineering and an inventor of the technology.

<http://nextbigfuture.com/2009/02/jovion-corporation-gets-patent-for-zero.html>

Videos about Zero Point Energy Extraction

<http://www.documentarywire.com/free-energy-zero-point-energy-extraction-from-the-quantum-vacuum>

<http://www.youtube.com/watch?v=ujLBM2sbHqA>

<http://www.youtube.com/watch?v=gO6BHTQ7YFU&feature=channel>

http://www.pureenergysystems.com/events/conferences/2004/teslatech_SLC/TomValone/ZPE_Extration_QuantumVacuum.htm

DVDs about Energy from the Vacuum

<http://www.energyfromthevacuum.com/DVD%20List.htm>

Periodics

21st Century Science & Technology P.O.Box 16285, Washington, DC 20041, USA,
<http://www.21stcenturysciencetech.com>

Cold Fusion Times

(P.O.Box 81135, Wellesley Hills, MA 02181, USA), <http://world.stp.com/~mica/cft.html>

Extraordinary Technology Tesla Tech, Inc., 296 E Donna Drive, Queen Valley, AZ 85218, USA.
<http://www.teslatech.info>

Future Energy eNews Editor Thomas Valone, Integrity Research Institute, 1220 L St. NW, Suite 100-232, Washington, DC 20005, USA, e-mail: iri@erols.com, Internet:
<http://www.integrityresearchinstitute.org>

Future Energy Newsletter Editor Thomas Valone, Integrity Research Institute, 1220 L St. NW, Suite 100-232, Washington, DC 20005, USA, e-mail: iri@erols.com,
<http://www.integrityresearchinstitute.org>

Infinite Energy founded by Eugene F.Mallove [†], Editors W.H.Cantrell, S.R.Chubb & W.H.Zebuhr, New Energy Foundation, Inc., P.O.Box 2816, Concord, NH 03302-2816, USA,
<http://www.infinite-energy.com/>
<http://www.infinite-energy.com/iemagazine/backissguide.html> (index)

Journal of New Energy Hrsg. Hal Fox, Institute for New Energy, 3084 East 3300 South, Salt Lake City, UT 84109-2154, USA, <http://www.padrank.com/INE>

Journal of Scientific Exploration

Society for Scientific Exploration, c/o Allen Press, East 10th Street, Lawrence, KS 66044, USA.
<http://www.scientificexploration.org>

New Energy News

Editor Patrick Bailey, Institute for New Energy, P.O.Box 201, Los Altos, CA 94023-0201, USA, e-mail: eemf@earthlink.net, <http://www.padrank.com/INE>

New Energy Technologies

Hrsg.Alexander V. Frolov, Faraday Lab, Lev Tolstoy Str.7, St.Petersburg, 197376 Russland, e-mail: office@faraday.ru, <http://www.faraday.ru/>

References

<http://www.dvr-raumenergie.de/energy/>

http://www.scitron.de/bibliographie_freie_energie.htm

<http://www.panacea-bocaf.org/zeropointenergy.htm>

<http://users.rcn.com/zap.dnai/>