Marcus Reid

Asymmetric Electric Systems

A new theoretical foundation and experimental validation for the generation of limitless clean energy from the time domain

"Asymmetric Electric Systems" explains in a schematic way the role that potential, which exists within seemingly empty space-time, plays in conventional electrical systems. Strictly following a quantum open system approach, Marcus describes the energy conversion process in electrical circuits in quite a different way. His theoretical work includes time-based concepts that relate to the foundations of physics and electromagnetism, which culminate in new definitions of what energy is and how a force is assigned. It also explains how to integrate an excess amount of energy from the quantum vacuum and how to convert it into a usable form. As an experimental example, the Reid-Cell (RC) is presented. The RC is a closed-looped, self-running, mesoscopic, and asymmetric quantum open system that integrates excess energy from the time domain in a steady and emission-free way. The RC makes use of an effect that Marcus calls "quantum noise rectification" via the Quantum Grotthuss effect and a one-way road (diode) for charges. The RC combines the quantum critical property of H_2O with a nanocrystalline material to create coherent water-bridge oscillations. Due to these oscillations, quantum fluctuations improve the charge separation.

Marcus shows that these new Asymmetric Electric Systems have become a reality. The sooner the energy industry, scientific community, and political establishment realize that these new energy systems exist, the earlier mankind can start the next industrial revolution and create a new energy economy that will be environmentally friendly.

In December 2023, Marcus was nominated for the 2025 Japan Prize by Prof. Tengiz Jaliashvili and a group led by Prof. Amiran Aptsiauri for his research on quantum open systems.

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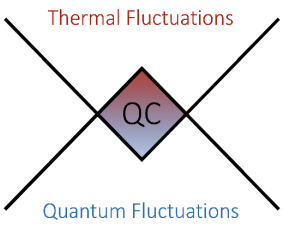

consciousness uses time as an energetic tool to create a
-capacity to do work-

Marcus Albert Reid was born in 1968 in Cape Town (South Africa) and moved to Munich (Germany) in 1978.

As a self-taught inventor and visionary, Marcus has been working since 1998 in the field of Asymmetric Electric Systems.

He developed experimental approaches relating to the unbalanced integration of energy from space-time. Together with the research team at Quantum Power Munich, experimental success was achieved with the Reid Cell.

Marcus also developed new schematic, time-based concepts relating to the foundations of physics and electromagnetism, describing the relationships between energy, information, consciousness, and quantum criticality.

In December 2023, Marcus was nominated for the Japan Prize (2025) for his work on the Reid Cells by Prof. Tengiz Jaliashvili and a group led by Prof. Amiran Aptsiauri.

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The blue planet

It does not belong to us – we are only borrowing it for a while.

Especially over the past 100 years mankind's energy needs have significantly increased and our planets resources have been exploited in a drastic way. This has led to an ecological crisis that seems to increasingly threaten certain aspects of our civilisation. Obviously, this cannot go on forever. We urgently need to move to an emission-free source of energy. Solar, wind, hydroelectric and geothermal energy conversion technologies can only be partial solutions, as they are not available everywhere or/and at any time.

There is, however, enough energy existing within seemingly empty space-time that is always available. It is constant, unlimited and 100% environmentally friendly. To catch an understanding about the nature of what this energy is, we need to challenge some of the most fundamental assumptions in physics. Our civilization is on the edge of a quantum leap in evolution, which will come with a paradigm shift regarding our perception of what energy is and how to access it. It will solve, not only the global energy related ecological crisis but also enable the developing countries to regain sovereignty and self-sufficiency. It will supersede wars on oil, gas and water. It will save the planet. It is our all responsibility to face this reality right now and communicate it to our families, friends, colleagues, politicians etc. Let´s build a new world. Let´s just do it!

Foreword

Today the scientific community has the opinion that there is no such thing as a 'free lunch'. This terminology is used in relation to the law of conservation of energy, which states that energy can neither be created out from nothing, nor can it be lost. The problem with this view is, that the energy that exists in the universe must have come into being from nothing during the big bang or before, since apparently nothing existed before that time. This can only mean that it must be possible, that 'Something' can be created from 'Nothing', or that there is no such thing as a 'Nothing' domain in the sense of being no-thing at all.

For example, in quantum theories the nothingness of seemingly empty space-time is not considered to be an energy- and identity-free domain. According to these theories, space is filled with an unlimited and never-ending form of (virtual) energy (virtual phenomena that are called virtual particles) that permanently appear at every conceivable point in space.

A practical concept that developed from this view is, that material objects themselves are also made up from this space-time energy. As the (virtual) energy density of seemingly empty space-time is practically infinite, the idea developed that visible particles, such as atoms, exist as an energetic pressure difference of infinite virtual energy densities.

If this idea is applied for example, to an empty car battery, then there would be an infinitely large electromagnetic potential at the negative- and also at the positive pole. If, however, one measures the voltage, then the display on the voltmeter will show 0V. This is due to both infinitely high electrical potentials at the negative- and at the positive pole exactly cancelling each other out. If the battery gets charged, and subsequently a voltage of 12V is measured, then a potential difference of 12V has been created, describing an energetic pressure difference between two infinite energy densities within space-time. Hence the electric voltage is a measure of an energetic pressure difference (broken symmetry) within the uniformly distributed infinite virtual energy density of space-time.

Quantum theories show, that it can be practical to assume that all observable forces and energies presuppose such a broken symmetry of space-time. This means that all energy we deal with is derived from seemingly empty space -time in the first place. Subsequently, all systems that we know of must be energetically open systems (quantum open systems) that exchange energy between the material aspect of, say, an electric system and space-time.

At the same time, however, it is clear that the observable energy components are conserved. Therefore, it looks like as if all known energy systems are closed systems in relation to the energetic exchange towards space-time. This can only mean, that although these systems are in reality energetically open, they just behave like energetically closed systems.

The Research Laboratory for Vacuum Energy, which was united with Quantum Power Munich GmbH in 2015 has participated in developing new schematic time-based ideas that relate to the foundation of physics and electromagnetism.

It is our (the Quantum Power Munich team) and my opinion, that the so-called virtual particles, which steadily emanate from space-time create the flow of time in space and that the virtual particle exchange between a mass and space-time creates the flow of time on that mass.

This has led to the possibility to describe the creation of forces and energies as a function of time. This model can explain for example, why electromagnetic systems behave like quantum closed systems, despite the fact that they are quantum open... meaning, it can define the mechanism that leads to the conservation of energy.

Leading on from this, a new theoretical- and practical concept was developed showing how electromagnetic systems can be built, which also behave like energetically open systems in relation to the energy contained within space-time. The outcome is for example, an energy conversion device that integrates excess energy from space-time and converts it into a useful form of energy, permanently, emission-free and with a significant power output. Such an energy conversion system was successfully developed in the laboratory of Quantum Power Munich and is called the 'Reid-Cell' (RC). So, these new 'Asymmetric Electric Systems' show that a kind of a 'free lunch' does actually exist.

Now, just imagine what would happen when such a technology would be introduced into the market. We would have unlimited access to emission-free energy at low cost, everywhere and at any time. Many everyday goods could then be manufactured more cheaply. In the longer run even the basis for greed per se could be removed partially (anyway, that´s what I am hoping for :). Such a technology would have the potential to change the course of evolution of human society. Impossible you say? Well, the belief that there is no 'quantum free lunch' will hopefully not persist until you have finished this book.

Introduction

Whenever a new electrical system is built, Maxwell's equations are used in order to manage the flow of electromagnetic energy. However, these equations, which were first presented to the public back in the 1860s, are no longer up to date because they do not harmonize with modern scientific findings. Modern theories show that the electromagnetic field can be seen as a broken symmetry of space-time and that the virtual photon (which is made up from virtual particles) transfers and creates the electromagnetic interaction. These ideas are simply not considered in the Maxwellian approach.

Virtual particles generate all forces and energies. As virtual particles simply pop into existence just like that from seemingly empty space-time (frame), one can conclude that space-time itself must be the primary energy-carrying medium. This approach has far-reaching consequences regarding our understanding from where energy actually comes from in the first place.

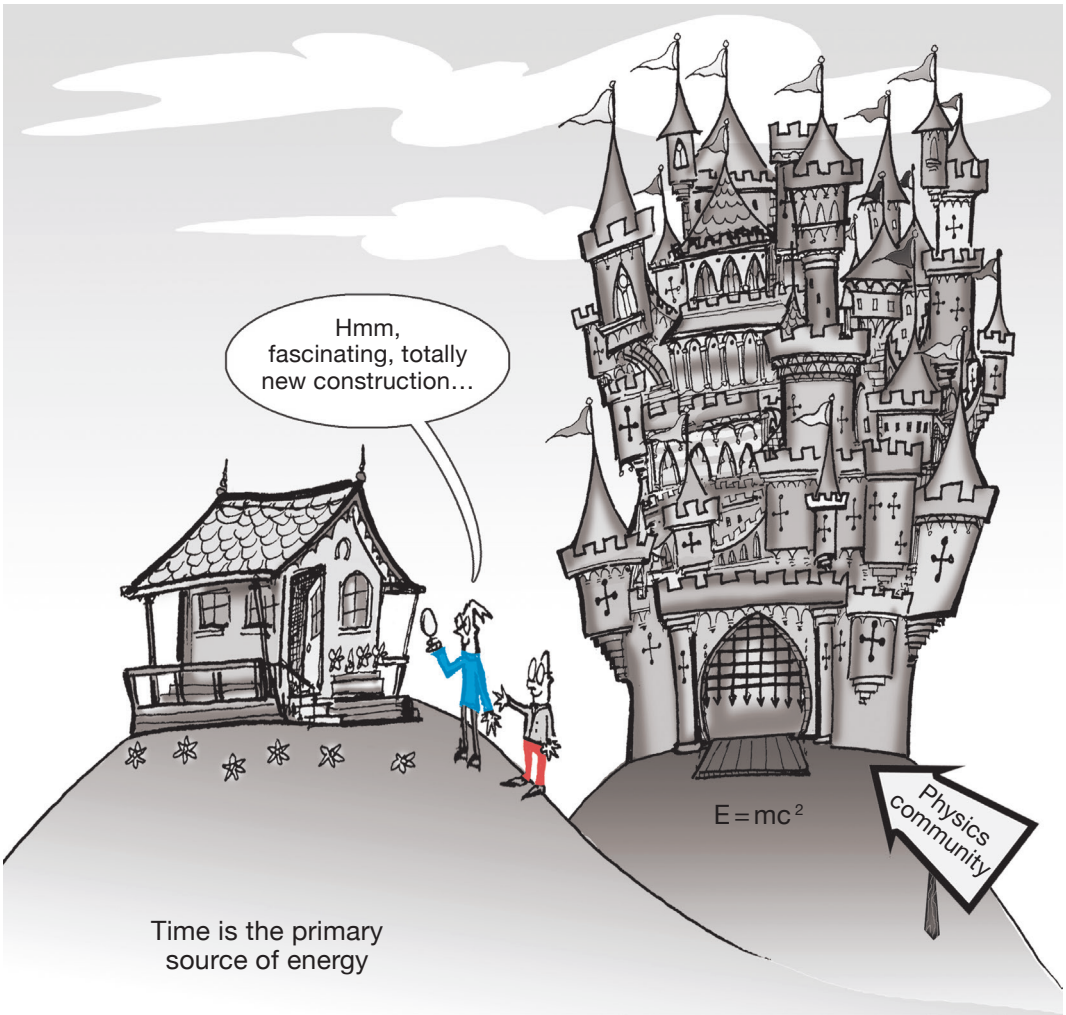
The challenge with this view is to shift the point of our perspective from the material aspect of a system into space-time. The entire space-time surrounding us is not empty but is filled with an invisible form of energy. And at those places where a volume of space-time is occupied by a mass, this invisible energy obtains a 'visible' or, in other words, a 'mass-like' characteristic.

Empty space-time can be seen like something that is filled with transparent water, which is invisible to the eye. A mass existing within this space-time can be compared with an iceberg floating in this invisible sea of water where all that we can see is the iceberg. Both, the iceberg and the water are made up from H_2O, and the only difference between the non-observable liquid water and the observable solid iceberg is the differing state. This can be compared to the transparent energy within space-time and a visible mass. Space-time energy exists everywhere and where there is a mass, this space-time energy manifests into a visible (observable) form. Therefore, a mass just exists as a quality of space-time, meaning as a condensation of time. Time creates everything. Time creates space, mass, energy, consciousness... simply everything you can imagine.

Applying this approach to common electrical circuits opens up the possibility of viewing the entire energy conversion process from the space-time point of view. Consequently, all electromagnetic systems are energetically open in relation to the energy existing within space-time. However, they behave like closed systems and if one follows today's established theory of how electromagnetic systems work (Maxwell's equations), then one must also view them as systems

that are energetically closed. It is the aim of this book to turn the tables and present a model that is based on a different point of view, that is, with space-time as the primary energy-carrying domain and the starting point of our perspective.

'The first principles of things will never be adequately known. Science is an open-ended endeavour that can never be closed. We engage in science without knowing the first principles. It does in fact not start from first principles, nor from the end principles, but from the middle. We not only change theories, but also the concepts and entities themselves, and what questions to ask. The foundations of science must be continuously examined and modified; it will always be full of mysteries and surprises.' [1] *– A.O. Barut*



A broken symmetry converts time and information into observability.

Established physics theories are like a gigantic castle built by numerous scientists who have achieved truly masterful tasks. And this castle, just like any other building, was built on a foundation.

Due to the complexity of physics, I did not want to add another concept to this castle and therefore decided to build something completely new. At present this may be just a little hut to start with, but at least it is standing on a new (time-based) foundation.

I am aiming for a fundamentally new approach that explains energy conversion processes from the virtual particle (time-domain) and broken symmetry point of view. As soon as this is understood it will become clear that there must exist an additional and new class of energy conversion systems. I call them 'Asymmetric Electric Systems'. These systems use the energy in space-time in such a way, that more real (observable) energy is output from a device than was previously input in an observable form. The missing energy comes from the virtual particles emanating from space-time.

In this book a schematic model is presented that describes the energy conversion process in common electromagnetic systems from a time based perspective. Thereby I assume that the virtual particle flux in space carries only a potential that creates the flow of time. And time is the phenomenon that enforces change. Change is work and work includes energy.

As an experimental example, the RC demonstrates how to integrate an excess amount of (virtual) energy from space-time and how to convert this potential into an observable form. While developing this model it became clear, that if we want to catch a better understanding of what energy is, we need to address the phenomena of a broken symmetry, information, consciousness and a non-zero quantum critical phase transition as well. In this respect new terms and concepts were developed.

Enjoy the read.

Marcus Reid