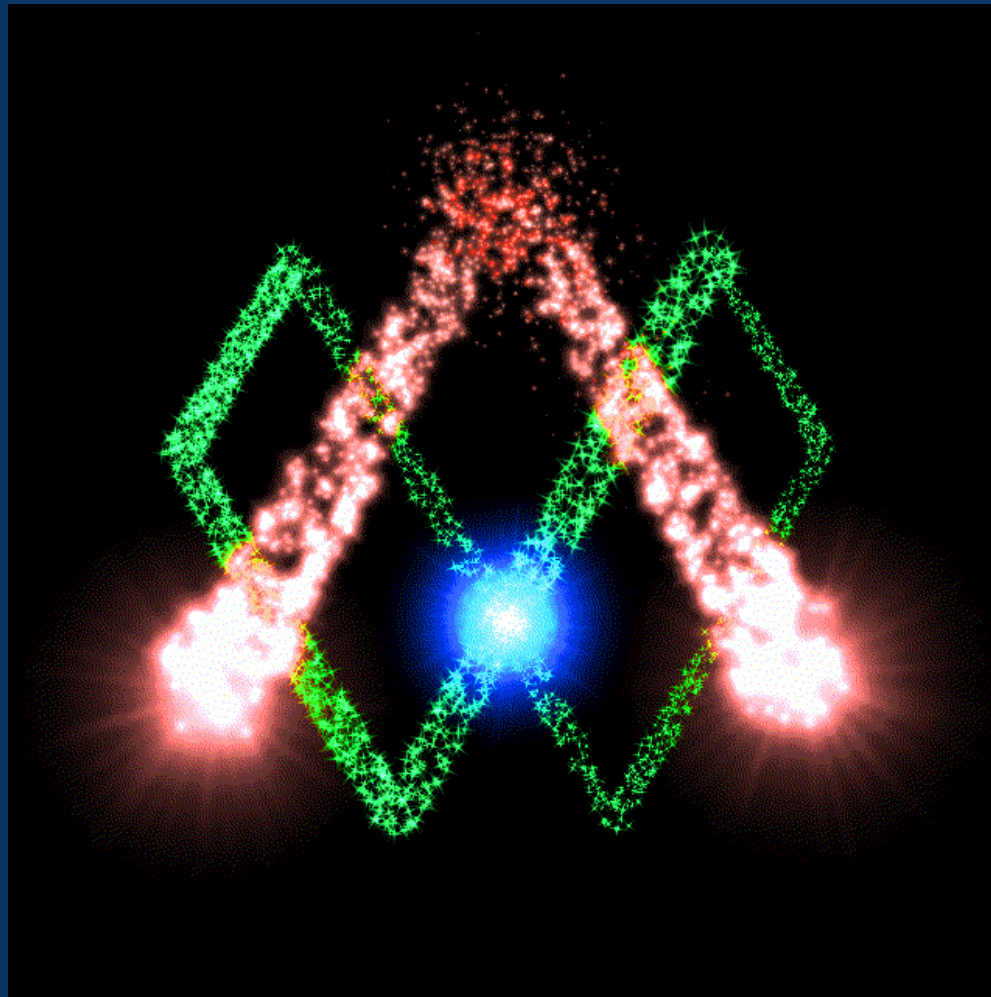


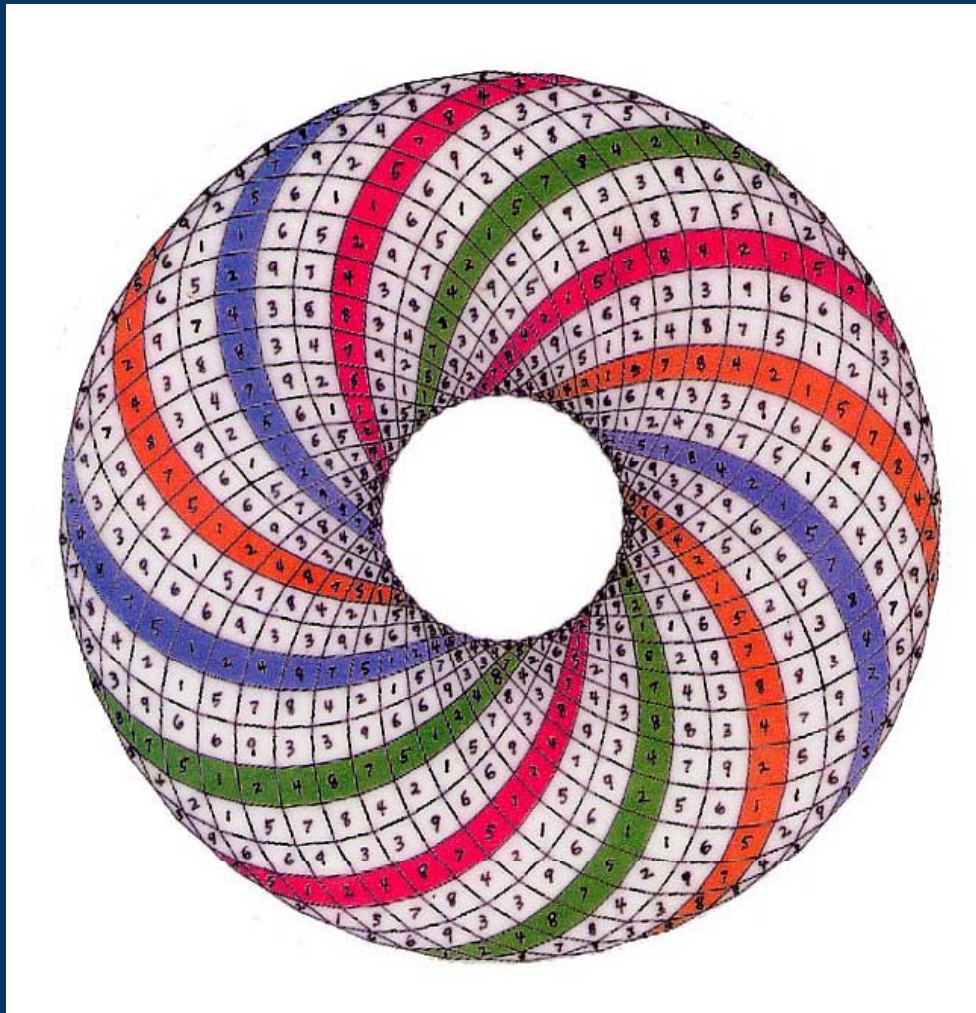
# RODIN AERODYNAMICS

*Breakthrough Discoveries... Advanced Technologies...*



*Marko Rodin has discovered the source of the non-decaying spin of the electron.*

# Introduction



# RODIN

# AERODYNAMICS

*Breakthrough Discovery  
by Marko Rodin*

Marko Rodin has discovered the source of the non-decaying spin of the electron. This is the natural pathway that electricity wants to take without force. The result is synchronized electricity without reluctance or friction. Scientifically, this is known as the longest mean free pathway of least resistance. Rodin's Vortex Based Mathematics enables a point energy source that can be focused; the philosopher's stone; a reaction-less drive; a true model of an atom; and a key to the periodic table of the elements.

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## *Peer Review of the Rodin discovery:*

**Russell P. Blake, Former Senior Researcher at Microsoft**

Russ Blake discovered "Atomic Modeling" which revolutionized computer performance modeling, measurement, and sizing. He was also responsible for reductions of code size by 50%. "I am sure that as the research momentum builds and the proper relationship between the Rodin Torus and conventional science is fully understood, both areas of endeavour will attain new heights."

**Col. Thomas Bearden, Former Associate Editor Alternative Energy Research**

"Rodin is apparently going by elementary electricity concepts but augmented by excellent native intuition. What he really is doing is attempting to separate the A-potential (i.e., the magnetic vector potential  $A$ ) from the B field, and utilize the curl-free A-potential as an independent field of nature in the central "crossover" region. It is known in physics that this is possible; the well known Aharonov-Bohm effect depends upon precisely this separation."

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## *Supporters of the Rodin Solution and contributors to the work include:*

- Dennis Watts, Senior Engineer of Communications for NASA and leading engineer for Boeing Aerospace;
- Russell P. Blake, former Senior Research Engineer at Microsoft;
- Keith Watson, in charge of the Bikini Atoll nuclear testing research project for the U.S. government, supports Rodin's work and introduced Marko Rodin before his presentation on power and propulsion systems at the Air Space America convention;
- James Martin, the editor of Defence Science Magazine - the largest U.S. military journal calls Rodin's work "the most revolutionary propulsion system ever created for outer space";
- Maury King, author of "Zero Point Energy";

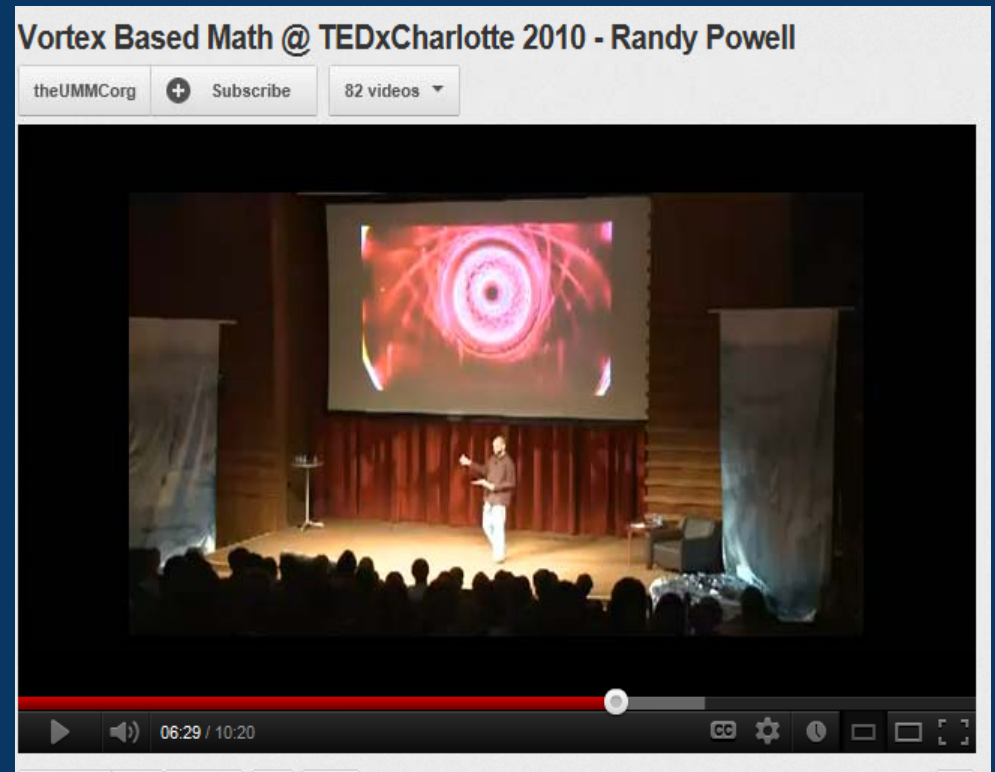
## *Vortex Based Math @ TEDxCharlotte 2010 - Randy Powell*

"It is a higher dimensional energy known by many names, such as dark energy, tachyons, monopoles, gravitons. We call it "Aetheron Energy". It's the energy that's keeping us conscious and alive. It's not a static or stationary energy. It's a pulse, it's a surge; it's a beating heart of all existence. It is the ultimate fundamental particle in all the universe – the God Particle. And we know how to harness it.

This energy is the source of all time, motion, and vibration; and it is the only thing that comes from the hole, the zero, the center of the cyclone. It emanates linearly in all directions, penetrating everything without any resistance. It can't be shielded.

As it penetrates, it leaves a grain. It shows you how things move, how they stick together or come apart. It animates everything. It is the source of the non-decaying spin of the electron.

If you combine it with a coil, you get a perfect mathematical vortex, consisting of a positive, electromagnetic energy radiating out, and a negative back-draft counter space that is the same as gravity — allowing for contraction. Aetherons are literally the glue that holds the universe together. Einstein called it an inertia aether."



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## *Additional Supporters and contributors include:*

- Oscar Hu, the NASA Astrophysicist who successfully recovered the probe when it was lost going into the magnetic field of Neptune, has written papers on how Rodin Torus Coils can be used to create artificial man-made black holes and an electrical wheat-stone-bridge that creates a gravity-well in a laboratory.
- Jean Louis Naudin, the foremost international expert in vertical lift space & aircraft, uses Rodin's work as proof that the B-Field Torsion Effect is real;
- Tom Bearden, an alternative energy expert considered one of the world's foremost experts in zero point energy says Rodin has "accomplished what he has been advocating for over 20 years and should continue his work";
- Robert Emmerich, head of Materials Testing Department at Hewlett Packard tested the Rodin Torus Coil and concluded it had more than 60% greater output than anything existing or being used at time of the test.

# RODIN

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*Institutions where Marko Rodin  
has given instruction:*

- University of Hawaii
- Manoa Innovation Center
- Maui Super Computer
- San Diego State University
- Air Space America
- International Biotechnology Exposition
- Psychotronics
- Global Science Congress
- Tesla Society Conferences
- New Energy Symposiums



# Applications



## *Rodin Technologies & Applications Include:*

1. Magnetic Field Generator Coil – produces greater magnetic fields with far less copper and much less energy consumption
2. Communication Antenna - extreme sensitivity, range, penetration, frequency, and bandwidth.
3. Space Propulsion Drive - pollution-free, self-orientating, preferred frame of reference reaction-less nozzle.
4. Biophysical Harmonics - Brain damage repair / autism treatment / increased learning potential & intelligence.
5. Genetics - disease control by selective cutting and splicing of sequencing at cleavage & receptor sites.

# RODIN

# AER DYNAMICS

## *Additional Applications Include:*

6. MRI / Medical Devices - for neurological, musculoskeletal, cardiovascular, and oncological imaging.
7. Computer Processor - exponentially higher efficiency processing with no heat build-up or parasitics.
8. Data Compression & Storage - condensing complex calculations to only a few integer steps.
9. Artificial Intelligence Operating System - with automatic self- referencing (code checker).

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## 1. Field Generator Coil

The source of the non-decaying spin of the electron and natural pathway that electricity wants to take without force has been discovered resulting in synchronized electricity without reluctance or friction. This is scientifically known as the longest mean free pathway of least resistance. A one-minute crude demo video of a (token sample / proof of concept) field generator coil.

## 2. Communication Antenna

With the greatest sensitivity, range, frequency, and bandwidth, these antennas can receive and transmit through any media. Independent testing has shown 6000% more sensitive than any other antenna existing at time of test. This technology is adaptable into mobile phones resulting in the first ever microwave-free cellular phones.

## 3. Space Propulsion / Vertical-Lift Drive

A reaction-less drive has been designed by identifying and harnessing new-found secrets of the gyroscope. This revolutionary propulsion system does not create any pollution. It has a preferred frame of reference with automatic self-centring, equilibrium, and stabilization. The design has full & precise navigation abilities with no pitch or yaw.

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## 4. Biophysical Harmonics - Brain Damage Repair / Autism Treatment

Biophysical harmonics (neurogenesis) is a key to repairing and regenerating areas of the brain damaged through injury or disease and is key to increasing brain weight mass. How acoustics affect the human brain has been explored using biophysical harmonics to treat autism and brain damage. The foundation of understanding the human brain's neurosynaptic connections resides in mathematical patterns that model how the brain wires itself. This relates to the underlining novel processes of learning and achieving our full potential intelligence.

## 5. Genetics / DNA – Disease Control

For treating and eliminating disease by enabling selective cutting and splicing of genetic sequencing at cleavage and receptor sites. Mathematics reveals that the major groove nested inside the double spiral helix of DNA is not hollow but occupied by a Morphogenetic Field (Bioetheric Template) defined by the discovery of a mathematical number pattern now called the equal potential major groove gap space of the flux field of (3-9-6-6-9-3). This controls cellular communication and its how all genetic information is stored and reproduced, through Mitosis and DNA sister strand unravelling.

## 6. Magnetic Resonance Imaging Machine / Medical Devices

A revolutionary MRI (improved design) for visualization of the internal structure and function of neurological (brain), musculoskeletal, cardiovascular, and oncological (cancer) imaging. Other applications of this technology include improved designs of life-saving medical devices and cancer patient treatment.

## 7. Computer Processor

Revolutionizing computer hardware by creating a crucial gap space (equi-potential major groove), which generates underpinning nested vortices resulting in exponentially higher efficiency with no heat build-up by eliminating all friction, resistance and parasitics. This processor only requires a few transistors. (Other current processors require many). It's conductors touch, but do not short-circuit, using harmonic shear to create a natural wall of insulation. No cooling or heat sink required. Has the capacity to simultaneously compute all chemical processes transpiring in the body.

## 8. Data Compression & Storage

Computer memory storage system technology enables the condensing of a trillion-fold calculation to only a few integer steps revolutionizing computer data compression. Data storage & retrieval hardware is based upon solid state higher dimensional flux fields. Inscription preservation is controlled with intense magnetic fields (similar to morphogenetic fields in genetics).

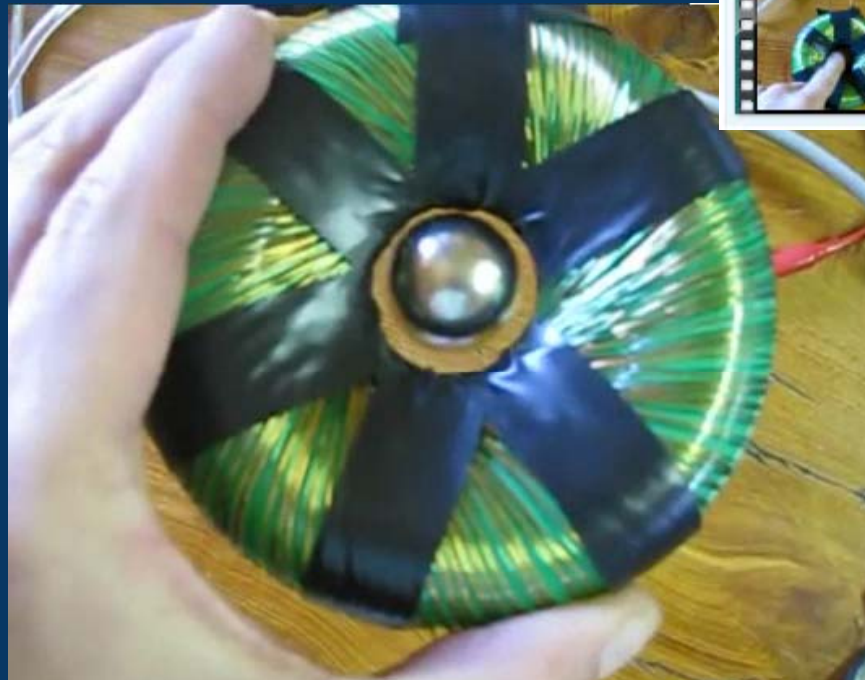
## 9. Artificial Intelligence - Operating System

Perfect Error Correction - with built in automatic self-referencing (code checker). The perfect artificial intelligence operating system has been developed based on the axis (number 9) as a preferred frame of reference with fixed constants, and absolutes. This is a revolutionary new artificial intelligence operating system based upon mathematical number patterns' covering six different self-referencing axis configurations over the surface topology of a toroidal matrix.

**RODIN**

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# N42 Neo-Ball Experiment



# RODIN

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## *Verification of Formless Rodin N42 Ball Experiment by Harvey Fiala, Electrical Engineer, CalTech*

Harvey Fiala, Electrical Engineer, Independent Aviation & Aerospace Professional, from Los Angeles, who achieved Master of Science in Electrical Engineering at California Institute of Technology, has verified our coil demonstration during our presentation at the Tesla Tech Extraordinary Technology Conference on August 1, 2010 in Albuquerque, New Mexico. During the demo, Harvey held the coil and has confirmed a 1-inch diameter, 64-gram N42 ball magnet spinning at ~2000-RPM, suspended by the inductance generated by a toroid Rodin Coil, comprised of only 9 winds of 18-gauge wire, at 2.4volts and 1.53amps consuming less than 3.7watts.



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## *Formless Rodin Magnetic Field Generator Coil - N42 Ball Experiment*

In this video, a 1-inch diameter, 64-gram N42 steel ball magnet spins at ~2000-RPM suspended by the inductance generated by a formless toroid 36 Rodin Coil with only 9 winds of 18-gauge wire at 2.4-Volts & 1.53-Amps consuming less than 3.7-Watts.



# RODIN

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## *N42 Ball Experiment Verification*

*by Bill Grisham, former Lead Engineer for GE*

Independent verification of the suspended spherical N42 ball Rodin Coil experiment has been provided by the Chief Technology Officer of ROSÆ Inc. ([www.rosae-inc.com](http://www.rosae-inc.com)) Mr. Bill Grisham, former Lead Engineer for G.E. General Electric, and holder of the first (and most revolutionary) US Patents for satellite architecture.

Bill indicates that in his Math Model, that  $\rho_0^3 \omega_0^2$  is a constant, and therefore the field attraction forces of the Rodin Coil replicates that of the spherically radial and centric gravity field forces of the earth. This is an indirect proof for other spherical 3-D central force fields, and validates Rodin Coli central force field distribution, demonstrated by the Rodin N42 ball experiment.

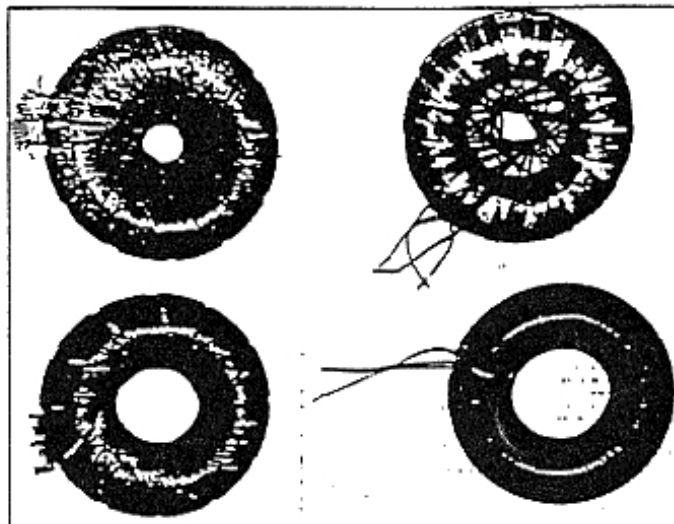
## Publications

### Introduction to *Rodin Coil Design*

©Copyright 1996 by Col. Thomas Bearden,  
Associate Editor Alternative Energy Research

There exists a valid Electro-magnetic mechanism that will produce the effects reported in the article to follow and other similar effects as well. It is not magic, but electromagnetics of a special kind.

Simply, the magnetic vector potential  $A$  is "defined" by the equation  $B = \nabla \times A$ . If you "choke off" or "kill" the  $\nabla \times$  operator (which is called the "curl" operator), then this leaves the curl-free  $A$ -potential to move out on its own, without being tied to a magnetic force field (i.e., to a  $B$ -field) as it almost always otherwise is. In other words, one has torn the potential away from its associated force field, and the potential propagates independently in space. However, anything you place in the path of that curl-free  $A$ -potential to interact with it, that will once again permit the  $\nabla \times$  operator



"curl-free" separation of the  $A$ -potential, by trapping the  $B$ -field inside the coiled wiring, so that in a very good torus coil most of the  $B$ -field can be contained within the coil, and the curl-free  $A$ -potential will still radiate from the coil (both : its inside or center space and outside and beyond in space).

A great deal of work on the use of the "curl-free  $A$ -field" was done by Gelinis, who patented several patents in the area which were assigned Honeywell, Inc., the firm of which he worked at the time. Professor William Tiller, Stanford University is also

noted and highly competent advocate of the curl-free  $A$ -field. In the late 70s and early 80s, Bill Tiller, Frank Golden and worked on curl-free  $A$ -potential antennas, and Golden built

**RODIN**

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## *Marko Rodin Publications:*

*"The Rodin Number Map and the Rodin Coil"*

(3D modulo-9 number system & natural topology of node-based systems)  
by Marko Rodin & Greg Volk - Published in the proceedings of the  
Natural Philosophy Alliance NPA17 conference.

*"The Quantum Mechanic State of DNA Sequencing"*

by Marko Rodin - Published in the proceedings  
of the International Bio-Technology Expo (IBEX)  
the largest genetic engineering conference in the world.

*"Low Cost Propulsion Systems Based Upon  
the Re-evaluation of the Physics of Matter"*

by Marko Rodin - Paper presented at the Air Space America  
convention, the largest U.S. convention of its type.

# RODIN

# AER DYNAMICS

*Publication by Marko Rodin & Greg Volk, Master of Science  
Electrical Engineering and Physics at Stanford*

Long Beach 2010

PROCEEDINGS of the NPA

1

## The Rodin Number Map and Rodin Coil

Marko Rodin  
44299 Dakota Trail, Indian Wells, CA 92210  
e-mail: [jslands@gmail.com](mailto:jslands@gmail.com)

Greg Volk  
1153 Tiffany Circle N, Eagan, MN 55123  
e-mail: [the.volks@comcast.net](mailto:the.volks@comcast.net)

Many researchers have demonstrated anomalous effects with what has become known as the Rodin coil, a particular winding of electrical wire around a toroid form. These inductive anomalies include a displaced magnetic south pole, levitation, and wireless power transmission. Marko Rodin discovered this special geometry from studying number patterns mapped from a two dimensional plane to a closed two-dimensional space with the topology of a doughnut. He claims that these number patterns represent the natural flow of energy, and therefore winds wire along these natural flow lines. The shears between adjacent currents create a complex overall magnetic field, whose properties are as yet not well understood. But since wound coils are essential to motors, generators, transformers, and numerous electronic devices, we should not be surprised to discover that new 3D geometries for coil windings have the potential to revolutionize all of these components, and possibly provide a have model for the electron itself. This paper introduces some of the theory behind the Rodin coil, in particular the 2D Rodin map. It shows that any repeating 2D pattern can be mapped onto the topological equivalent of a toroid, but that the 2D Rodin map has several properties that make it unique.

### 1. Introduction

The Rodin number system is more than a mere study of numbers, but of topology. Physical systems always involve flows of energy and matter, and if we describe these systems in terms of fields, their interactions invariably produce nodes, or critical discreet points of inflection. It is possible in most cases, if not in general, to describe systems only in terms of these discreet entities, as conventional science knowingly or unknowingly does with the Schroedinger equation. But for any system, the topologies or relationships within a pattern of nodes are not arbitrary, but follow natural laws. Marko Rodin claims that the patterns found in his number system represent the natural topology of node-based systems, the way nature organizes itself. He claims

Thus, for example

$$\begin{aligned} 6 \oplus 5 &= (6 + 5) \bmod 9 = 2 \\ 4 \odot 8 &= (4 - 8) \bmod 9 = (-4 + 9) \bmod 9 = 5 \\ 3 \otimes 7 &= (3 \times 7) \bmod 9 = 3 \end{aligned} \tag{1}$$

where even negative numbers accept a modulo 9 value by adding multiples of 9, as in the example.

Modulo division  $\ominus$  is more complicated and most easily done with a modulo multiplication table, as follows for modulo 9:

$\otimes$	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	0
2	2	4	0	8	1	3	5	7	0
3	3	6	0	3	0	9	3	6	9

The paper published and presented by Marko Rodin at the NPA17 Long Beach Conference with Greg Volk, who holds a Master of Science degree in Electrical Engineering and Physics from Stanford. This paper bridges math with geometry & physics! It's further verification of the advanced applications of Rodin's Vortex Based Mathematics.

# "The Quantum Mechanic State of DNA Sequencing"

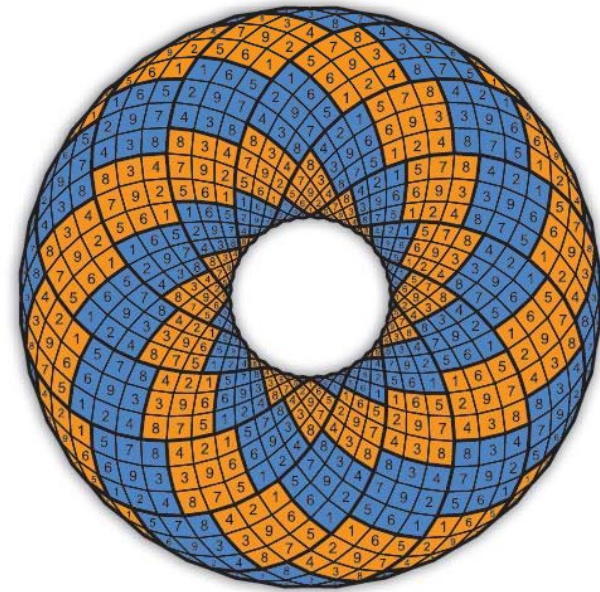
## Rodin DNA Publication

"The Quantum Mechanic State of DNA Sequencing" by Marko Rodin published in the proceedings of the International Bio-Technology Expo (IBEX) the largest genetic engineering conference in the world.

## Microscopic Underpinning Nested Vortices

Every continuous medium has the inherent capability to be superconductive based on harmonic cascendence. Examples of continuous mediums, in the form of a toroidal matrix, are tornados, hurricanes, water spouts, solar systems, galaxies, black holes/white holes and maelstroms. There are many other examples of localized space-time implosions which Rodin refers to as underpinning nested vortices. Whether energy is maintained and survives in the form of a toroid, or DNA spiral helix, or goes through mitosis and duplicates itself, is determined by whether or not nested underpinning vortices are staggered or aligned in their World Boundary Condition.

### Microscopic Underpinning Nested Vortices



Family Number Group +3, +9, +6 being activated by the Inertia Aether Flux Emanations, creating negative draft counter space motion and underpinning Nested Vortices.

DEUTSCHE GESELLSCHAFT FÜR ONKOLOGIE e.V.  
*German Society of Oncology*

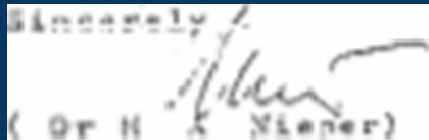
Dear Mr. Rodin,

I consider your paper of extreme importance.  
To me your conclusions are very likely.

I recommend your paper for publication in  
the GERMAN JOURNAL OF ONCOLOGY.

Please keep me informed of your further work.

Sincerely,

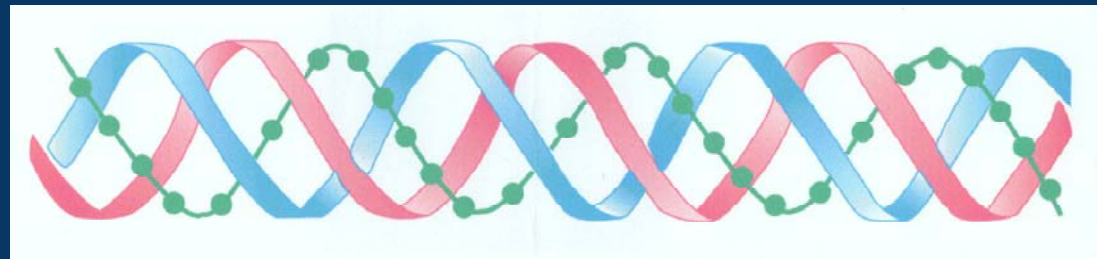


Sincerely,  
(Dr. H. A. Nieper)

Dr. Hans A Nieper

Dr. Hans Nieper, world  
renown cancer doctor  
and former physician  
to President Reagan,  
invited Rodin to  
submit a paper to the  
prestigious medical  
journal he's president  
of because of his  
belief in Rodin's work.

Dr. Jonas Salk, offered  
to be Rodin's personal  
physician and told him  
his work was so  
advanced he'd never  
complete it in his  
lifetime unless he  
cloned himself.



*Rodin third helix called the Major Groove*

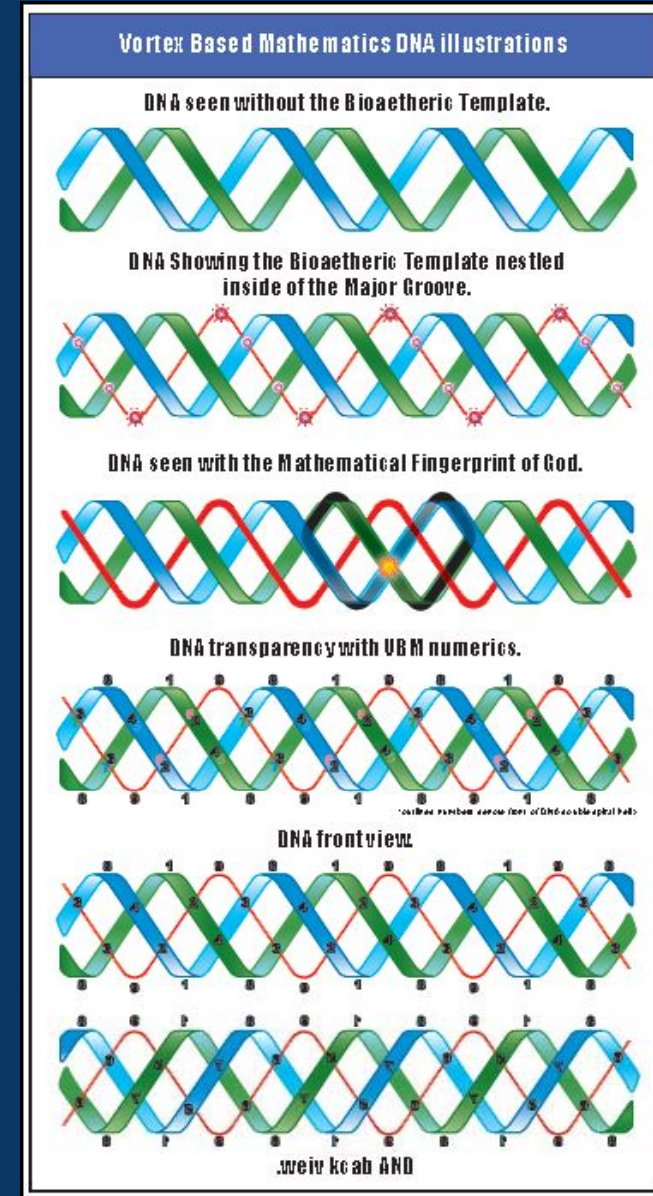
# Rodin DNA and Microbiology

DNA is not comprised of two helices but from three with the third helix being invisible and occupying a displacement space called the Major Groove which is located in between the two helical strands. Nature abhors a vacuum. This Major Groove is not empty but instead is where all information for the genetic coding of life exists. Rodin's Vortex Based Mathematics is the schematic for life revealing that inside the Major Groove of DNA exists a higher dimensional Bioaetheric Template (Morphogenetic Field) defined by the mathematical number pattern 3, 9; 6; 6, 9, 3 revealing the existence of an All Coherent higher intelligence guiding evolution.

Selective splicing of novel DNA sequence combinations are able to be performed at will for medical treatment and the elimination of all diseases by utilizing these higher dimensional Flux Fields to control DNA cleavage and receptor sites.

Maxwell previously stated that there must needs to exist a Monopole to symmetrise all of his electrical equations. Rodin's math is a blueprint that gives us the ability to observe this missing Monopole in the form of an Inertia Aether Flux represented by the number 9 and it's associated Magnetic Field represented by the numbers 3 & 6 which are perfectly nested in unison within the Major Groove of DNA .

The backbone of DNA's double spiral helix is comprised of phosphates and phosphates are known to always have a negative electric charge and obviously with any negative electric charge there is always going to be an associated magnetic field.





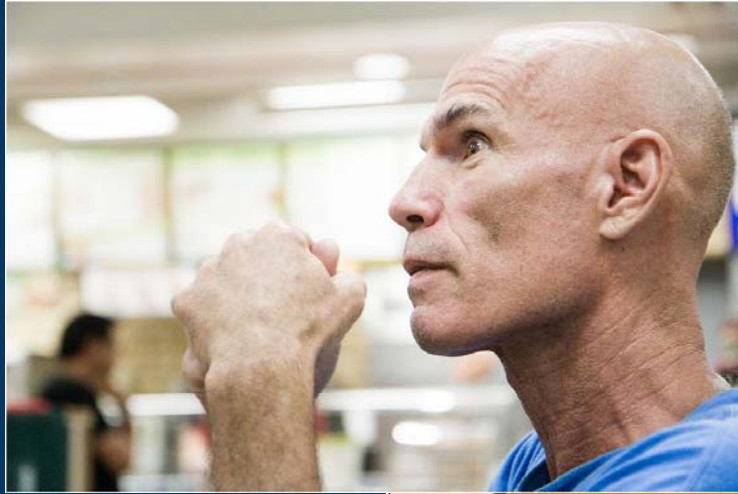
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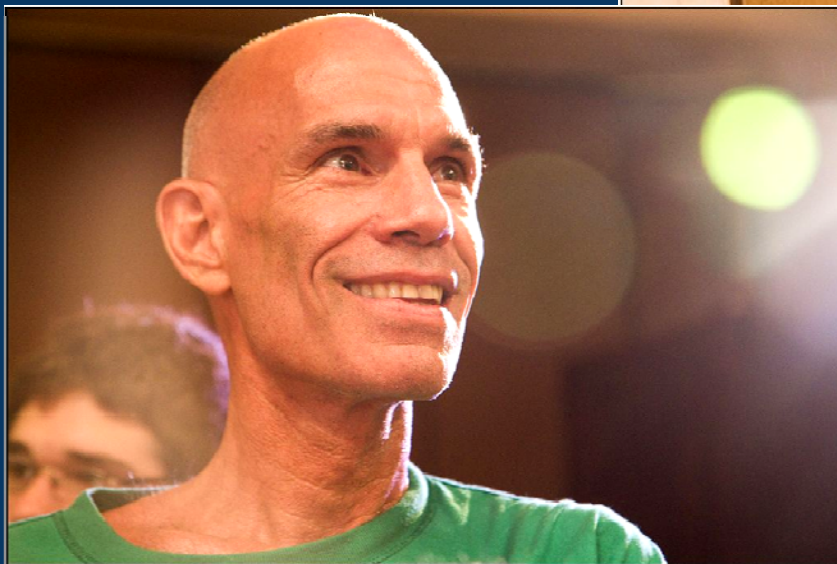
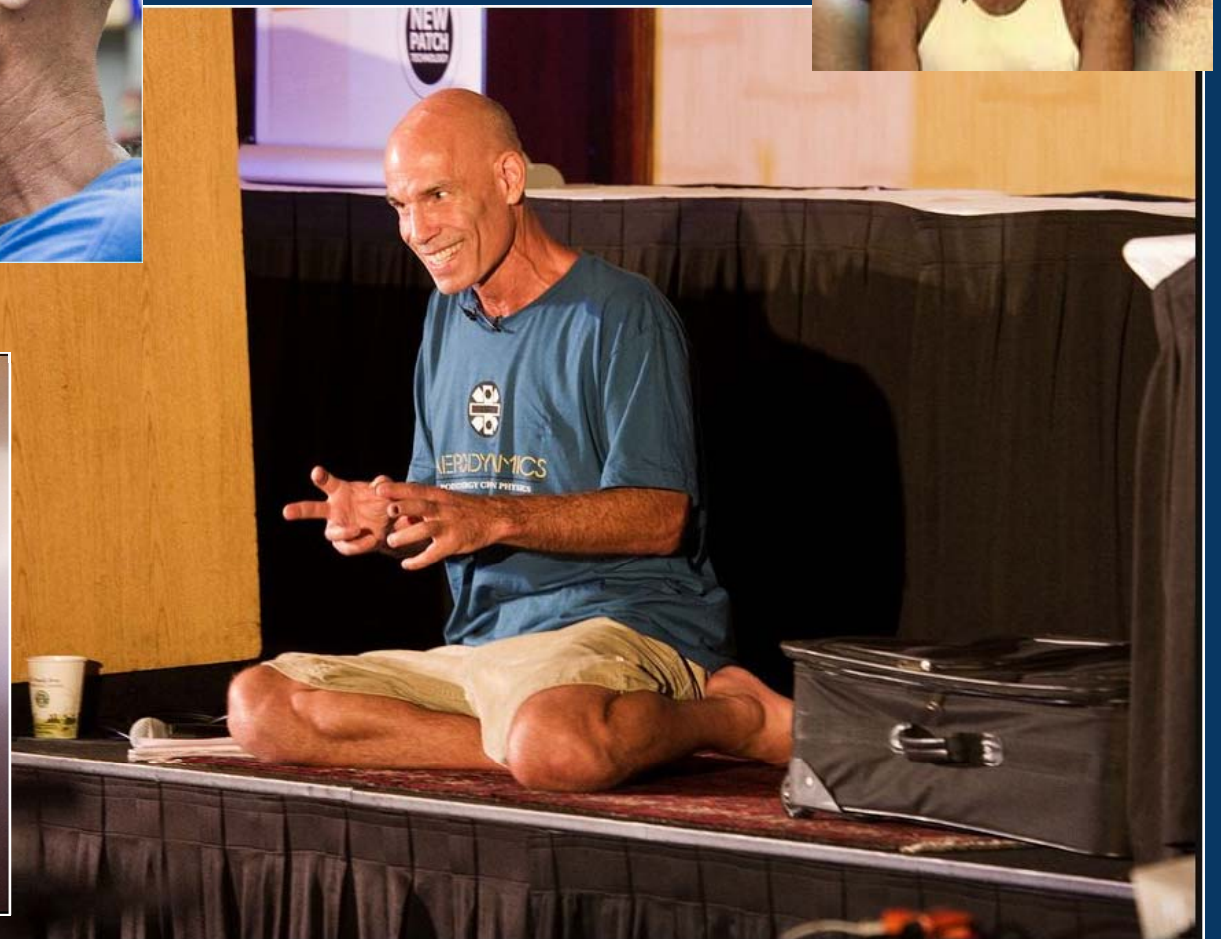
## Publications that Marko Rodin articles have appeared in:

- The Quantum Mechanical State of DNA Presented at the International Biotechnology Exposition Proceedings
- Air Space America Proceedings
- Explore More Magazine
- Borderlands Science Journal
- Numerous Web Sites
- Nexus Magazine

# RODIN AERODYNAMICS



*Marko Rodin*



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*Relevant Publications by Others:*

"Towards a Mathematical Formulation of the Rodin Coil Torus"  
by Russell P. Blake, Former Senior Researcher, Microsoft

"A Fibonacci Phyllotaxis Prime Number Sieve"  
An original research paper by Dr. Scot C. Nelson  
University of Hawaii at Manoa

"Rodin Coil Design" by Bill Ramsay  
Nexus Magazine, Volume 3, Number 3

## Introduction to Rodin Coil Design

©Copyright 1996 by Col. Thomas Bearden, Associate Editor  
Alternative Energy Research

There exists a valid Electromagnetic mechanism that will produce the effects reported in the article to follow and other similar effects as well. It is not magic, but electromagnetics of a special kind.

Simply, the magnetic vector potential  $A$  is "defined" by the equation  $B = \nabla \times A$ . If you "choke off" or "kill" the  $\nabla \times$  operator (which is called the "curl" operator), then this leaves the curl-free  $A$ -potential to move out on its own, without being tied to a magnetic force field (i.e., to a  $B$ -field) as it almost always otherwise is. In other words, one has torn the potential away from its associated force field, and the potential propagates independently in space. However, anything you place in the path of that curl-free  $A$ -potential to interact with it, that will once again permit the  $\nabla \times$  operator to occur, will provide you a normal magnetic force field ( $B$ -field) again. Since the  $\nabla \times$  usually occurs in, say, something like a coil or wrapping of a conductor, then you get the  $E$ -field induced also, by the time rate of change of the  $A$ -potential, so that you wind up with a normal EM field containing both  $E$  and  $B$  fields. The  $E$ -field occurs by the interaction of  $E = -\partial A / \partial t$ . One of the great promises of curl-free  $A$ -field utilization is that it propagates into and through media in which normal EM transmission is difficult or impossible, as pointed out in the Gelinis patents.

Obviously if you hold all the  $B$ -field inside the coils of the torus, and then put something else in the center region outside the coils, you can get some *additional* potential and field energy there in the center works. You can also get similar propagation outside the coil, with effects on distant objects.

Rodin is apparently going by elementary electricity concepts but augmented by excellent native intuition. What he really is doing is attempting to separate the  $A$ -potential (i.e., the magnetic vector potential  $A$ ) from the  $B$  field, and utilize the curl-free  $A$ -potential as an independent field of nature in the central "crossover" region. It is known in physics that this is possible; the well-known Aharonov-Bohm effect depends upon precisely this separation. It appears that neither Ramsay nor Rodin are aware that a tightly-wound torus performs this "curl-free" separation of the  $A$ -potential, by trapping the  $B$ -field inside the coiled wiring, so that in a very good torus coil most of the  $B$ -field can be contained within the coil, and the curl-free  $A$ -potential will still radiate from the coil (both to its inside or center space and outside and beyond into space.).

A great deal of work on this use of the "curl-free  $A$ -field" was done by Gelinis, who patented several patents in this area which were assigned to Honeywell, Inc., the firm for which he worked at the time. Professor William Tiller of Stanford University is also a noted and highly competent advocate of the curl-free  $A$ -field. In the late 70s and early 80s, Bill Tiller, Frank Golden and I worked on curl-free  $A$ -potential antennas, and Golden built dozens of curl-free  $A$ -field coil antenna variants. One of the most interesting variants he built was quite similar to Ramsay's buildup of the Rodin coil. Simply, he built a coil embodiment of the diagrammatic geometry for a "twistor" that was shown by Roger Penrose. That coil antenna exhibited about what Ramsay and

Rodin are reporting, and dramatically extended the communication range of a small CB radio from, say, its nominal 1/4 mile to about 20 miles or more. The  $A$ -potential from a dipole antenna falls off about inversely as the *square* of the distance, while the normal  $B$ -field falls off about inversely as the *cube* of the distance.

There is one other fact that deepens the curl-free  $A$ -potential phenomenon: Any vector field can be replaced by (mathematically decomposed into) two scalar fields; for the proof, see Whittaker 1904. With some difficulty one can even "assemble" a curl-free  $A$ -potential from two multifrequency transmitter arrays that transmit two harmonic series of wavepairs, where each wavepair consists of a normal EM wave and its true phase conjugate (for the proof, see Whittaker 1903). Each of the arrays transmits one of the scalar fields (scalar waves) that together comprise the curl-free  $A$ -potential. So the curl-free  $A$ -potential is actually a part of the Stoney/Whittaker scalar electromagnetics I have so long advocated.

At any rate, Rodin and Ramsay should certainly continue their research and experimentation.

References (from about 300 or more pertinent papers in the literature):

1. Raymond C. Gelinis, U.S. Patent No. 4,429,280, "Apparatus and Method for Demodulation of a Modulated Curl-Free Magnetic Vector Potential Field." Jan. 31, 1984.
2. Raymond C. Gelinis, U.S. Patent No. 4,429,288, "Apparatus and Method for Modulation of a Curl-Free Magnetic Vector Potential Field." Jan. 31, 1984.
3. Raymond C. Gelinis, U.S. Patent No. 4,432,098, "Apparatus and Method for Transfer of Information by Means of a Curl-Free Magnetic Vector Potential Field." Feb. 14, 1984.
4. Raymond C. Gelinis, U.S. Patent No. 4,447,779, "Apparatus and Method for Determination of a Receiving Device Relative to a Transmitting Device Utilizing a Curl-Free Magnetic Vector Potential Field." May 8, 1984.
5. W. Ehrenberg and R.E. Siday, *Proc. Phys. Soc. (London)*, Vol. B62, 1949, p. 8.
6. Y. Aharonov and D. Bohm, "Significance of Electromagnetic Potentials in the Quantum Theory," *Phys. Rev.*, Vol. 115, No. 3, Aug. 1, 1959, p. 485-491.
7. R.C. Jaklevic *et al.*, *Phys. Rev.*, Vol. 140, 1965, p. A1628.
8. Akira Tonomura *et al.*, "Observations of Aharonov-Bohm Effect by Electron Holography," *Phys. Rev. Lett.*, Vol. 48, NO. 21 May 24, 1982, p. 1443.
9. V.L. Lyuboshitz *et al.*, "The Aharonov-Bohm Effect in a Toroidal Solenoid," *Sov. Phys. JEPT* Vol. 48, No. 1, July 1978.

Woodbridge, Suffolk  
United Kingdom  
9 September 2001

## **Analysis of the Rodin Coil and it's Applications**

*Russ Blake*

### ***Introduction***

I have reviewed previous and current work on the theories of Marko Rodin. Mr. Rodin has discovered a series of regularities in the decimal number system heretofore undocumented in mathematics. These patterns lay out on the surface and within the internal volume of a torus.

A number of scientists and engineers have voluntarily joined with Mr. Rodin over recent years to explore the implications of his findings.

### ***The Rodin Coil***

The Rodin Coil is a toroidal—or doughnut-shaped—form wound by wires in a pattern consistent with the number patterns discovered by Mr. Rodin. Toroidal shapes wound with wires are commonly used for inductors in electrical circuits, often for use in transformers. However the pattern of winding in a Rodin Coil is radically different from conventional toroidal coils. Experimenters have produced some samples of the Rodin Coil to measure the effects of this new approach to winding wires around a torus.

# Towards a Mathematical Formulation of the Rodin Coil Torus

Russell P. Blake

## Introduction

The following is an attempt to formalize the mathematics of the Rodin Torus. The goal is to attain a higher level of understanding of the Rodin Torus than can be obtained merely by observing the numerical sequences generating the Torus.

Key to the development is the use of decimal parity. Decimal parity is an operation that sums the digits in a number repeatedly to yield a single digit, the decimal parity digit for the original number.

For example the digits in the number 2,048 sum to  $2+0+4+8 = 14$ , and the digits in 14 sum to  $1+4 = 5$ . The decimal parity digit of 2048 is therefore 5.

It is interesting that all of the same results can be derived if the modulo operator is used in place of the decimal parity operator. The modulo operator is the remainder operator:  $x \bmod y$  is the remainder of  $x$  divided by  $y$ . The difference in the resulting patterns of digits is that everywhere there is a 9 decimal parity, there would be a 0 modulus. Since there is a one-to-one correspondence between the two approaches, the difference is apparently merely symbolic. Nonetheless, we shall use the decimal parity operator in this development, and leave the modulo development as an exercise for the bored reader with too much time on his or her

**RODIN**

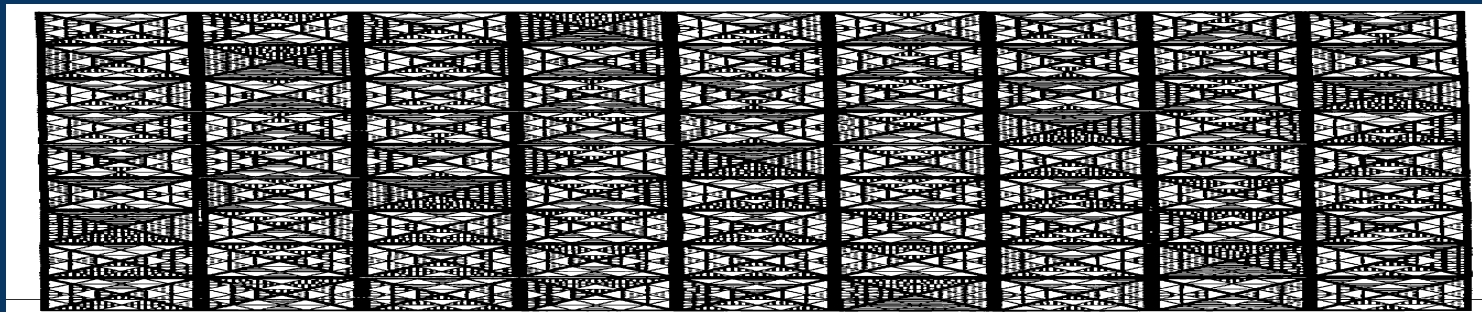
**AERODYNAMICS**

Endorsement by:

**Russell P. Blake**

Former Senior Researcher at Microsoft

Creator of "Atomic Modeling"



Verification of Vortex Based Math  
& US Patent founded on teachings  
he received from Marko Rodin

## *Russell P. Blake - Former Sr. Director of Research - Microsoft Corporation*

"If anyone had told me about Marko Rodin's discovery three months ago, I would have said that it was impossible... It became clear to me that Mr. Rodin's work was a synthesis of numerical patterns which had previously been overlooked by conventional science and mathematics... These patterns lay out on the surface and within the internal volume of a torus."

"These formulae suggested that the Rodin torus lies not just on the surface of the "doughnut" shape, but into the interior as well; in other words, the Rodin Torus is three dimensional."

"In the late 1970's I discovered atomic modeling which revolutionized computer performance modeling, measurement, and sizing... I mention these facts merely to convince the reader that my intuition has a history of success in the practical application of new mathematics."

"Rodin Coil antennae would be useful in any application where sensitivity to a particular frequency was important... Now I am completely convinced that the Rodin Torus will likewise lead to new and revolutionary advances in art and science... I am very much looking forward to playing a role in this adventure."

"A motor based on the Rodin Coil could be markedly more efficient at generating electrical energy than a conventionally constructed electric motor... The possibility of a hollow core electric motor is exciting due to the light weight of such a design. Rodin Coil motors would be useful in any application where energy consumption must be limited..."



From: "Russell P. Blake" <[REDACTED]> [Save Address](#) [Block Sender](#)

To: "Marko Rodin" <grandunifiedfieldtheory@hotmail.com> [Save Address](#)

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Here is what I have been working on. Since I have not read your book or much of the material written by others on this stuff, I may just be replicating what has already been done, possibly years ago. If not, well, this may prove useful someday.

It all checks out: I have used the formulae here to generate the surface of the torus in Excel, and the surface is the same. So far so good. I want to move on to another dimension, but I have to take care of some other business first.

I am very interested to hear whether this is original treatment of the material. It seems to me to open up the whole field of matrix algebra for describing what is happening, which could lead to vector calculus and from there we get the electromagnetic field theory. So I am somewhat optimistic that this is going somewhere. However, if it is all old news then we can probably assume that if it were going anywhere, it would have done so by now.

Please keep this to yourself at least until we get to discuss it.

...RUSS

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(54) **BOARD GAME WITH MULTI-FUNCTIONAL  
PIECES**

(75) Inventors: **Russell Phillip Blake**, Mt. Pleasant  
(AU); **Karla Marie Blake**, Mt Pleasant  
(AU)

Correspondence Address:  
**Karla M Blake**  
**Post Office Box 8503**  
**Mt Pleasant QLD (AU)**

(73) Assignee: **Ochre Holdings Inc.**, Bridgetown (BB)

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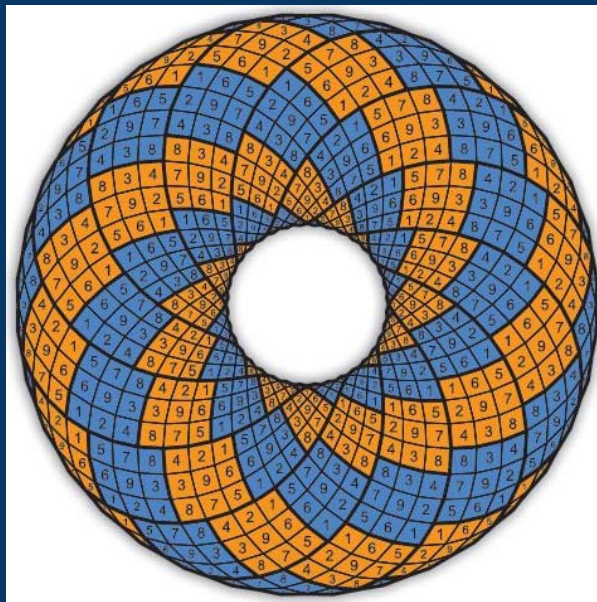
(57) **ABSTRACT**

A board game permitting from one to thirty-five players includes a plurality of square playing tiles (2201-2204) in an opaque bag, and a square board (2200) on which the tiles are placed. Each tile is simultaneously an element in four distinct bi-directionally infinite arithmetic series. A player moves by placing a tile onto the board. There are nine distinct tile front surface patterns. In the preferred embodiment the pattern imprinted on the board is a macroscopic image of these nine tiles, and its mirror image is imprinted on the back surface of the tiles. In order to be played, the marking on the back surface of a tile must match the markings on the square on the board on which it is placed. The first person to play all their tiles wins; in a solitaire game, the goal is to run out placing the fewest tiles.

*This patent is founded on teachings that Russell Blake received from Marko Rodin.  
The claims state that applications also include those in computer software platforms.*

# RODIN

# AERODYNAMICS



*Marko Rodin*

*The Rodin Coil*

*Vortex Based Mathematics*

*Breakthrough Discoveries*

*Advanced Technologies*

*For additional information, please contact:*

*Marko Rodin Tel: 760-270-9690*

*[www.MarkoRodin.com](http://www.MarkoRodin.com) [fluxthruster@gmail.com](mailto:fluxthruster@gmail.com)*

*[PeterVanBakel@nasa-inc.com](mailto:PeterVanBakel@nasa-inc.com) Tel: 604-780-5683*