

## John A. Gowan

[home page](#)

### Personal Chronology and Chronology of Papers and Ideas (approximate)

#### Chronology - Personal

28 July 1937 - Born Cambridge, Mass., with twin sister, Anne  
May 1955 - Graduate Culver Military Academy, Culver, Indiana  
Fall 55 - Spring `57 - Attend UCSBC, Calif.  
July `57 - July `60 US Army (Korean Translator)  
July `60 - Oct. `61 Farm work  
Oct. `61 - July `62 US Army (recall - Berlin crisis)  
July `62 - Fall `63 - Farm work  
1963 Fall Enter Cornell U.  
1964 Spring I marry Esther Brock  
1965 Begin work as technician for Dr. R.B. Root  
1969 I graduate from Cornell and we buy our Brooktondale country home  
1970 Nov. - Timothy born  
1975 Jan. - Geoffrey Born  
1978 April - Matthew born  
1986 Mother dies March 10; Father dies Dec. 4; I change jobs (April) after 20 years with Prof. Root - a difficult year  
1986 - 2000 - Work at various jobs in and out of Cornell, including the State Pheasant Farm, an auto rental agency, Pyramid Mall, Entomology Dept. (again), and finally the Floriculture Dept.  
2000 March - Retire, sell Brooktondale home, and move to Ithaca apartment  
2003 March - Esther and I Move to the "gray havens" of San Luis Obispo, CA

#### Chronology - General

[my website](#), along with annual lectures at *The Creative Problem Solving Institute* (CPSI - originally at Buffalo, NY), has been the principle outlet for my ideas. This website was established in the late summer or autumn of 1996, and from quite modest beginnings has grown in readership until by 2005 it had gone over 10,000 "hits" per month on several occasions, these from dozens of countries all over the world. (The Cornell server no longer hosts my web page (closing in June 2009), and my readership has declined significantly since that server shut down; Google Analytics currently registers between 2-3K "hits" per month.)

The internet is a tremendous boon to would-be authors, such as myself, whose subject matter falls outside almost every traditional commercial (or academic) category. Those who are interested in what I have to say are thinly spread indeed, but I nevertheless have many readers due to the fact that the internet is accessible to so many millions of people - about 20% of the world's population, according to a recent estimate (*Science* 27 July 2007). In view of this small but widespread success, why bother with a hardcopy book which will be little more than a reprise of the website, be accessible to and seen by many fewer people, in a much more restricted geographic area, and be a real pain and expense to produce in the bargain? There may in fact be no good answer to this question. However, it is always a great convenience to have a hard copy of an author's collected papers; for reasons of history and priority a hardcopy book is perhaps a more reliable instrument than a website; a book represents an important conservation measure, as it can be housed in a traditional library; and finally, if nothing else, the effort to produce it will inevitably generate new/revised material for the website. In fact, I would not consider producing a book at all if I could not also put it on my website. As a compromise, I have assembled a selection of the website papers into an "E-Book" that can be downloaded as a unit. The papers are organized into 7 chapters or subject areas, plus a small appendix of

miscellaneous papers. These papers (like all papers on the website) are always subject to revision as my ideas and knowledge evolve. This is another great advantage of the internet over traditional publishing technologies.

## The Papers

The website consists of an index page with a summary statement of the major conclusions of the work, a short biography of myself, and a listing of papers (about 80), tables (about 22), and diagrams (about 44), most of which address a single topic: General Systems models of the Unified Field Theory. There is in addition a cosmological map of spacetime with accompanying text; a paper on the mechanism of the weak force, several papers on the fractal organization of nature, a paper on Teilhard de Chardin, papers on the General Systems aspects of astrology, and some poetry from various CPSI friends. In addition, all eight chapters of the "Theory of Everything" (TOE) E-Book and miscellaneous contributing papers are now up.

As for my qualifications for this kind of work, I have only a bachelor's degree in biological science (actually given in "General Agriculture") from Cornell University (1969), and a lifelong interest in both science and metaphysics, and of course what talent and learning I inherited from my remarkable parents. Beyond this, it is just my lack of, or at best peripheral, membership in the academic circle and professional scientific academy that is my chief qualification for the production of some new thought and new perspective on these subjects. This because my ideas have escaped the censorship of a government granting agency, major professor, or peer review procedure. Historically, the penalty for this kind of intellectual freedom of expression is either extreme bodily harm, or at the very least, exclusion from the usual channels of publication: we either speak in public with a socially approved voice or not at all. But this tradition of thought-control is being overthrown by the internet, to the great benefit of everyone, myself included.

The history of this collection of papers is, in the main, the history of the various meetings (mostly the annual CPSI meetings) for which they were written, and at which they were presented. I began attending the CPSI meetings in Buffalo about 1980 and my earliest papers date from that time. I attended regularly except the four year period following my parents' deaths in 1986; I resumed attending CPSI in 1990, at the behest of Gus Jaccaci, the coauthor of many of the General Systems papers, tables, and figures.

I wrote and rewrote several papers a year to present at CPSI, which was the only outlet for my writing until I got my website up and running in late 1996; now (2005) I write mainly for my website. The web page is wonderful in that it allows the immediate publication of new ideas, and endless revision of (and additions to) previously published papers. In addition to the large annual CPSI meetings, I have written and presented papers for several smaller meetings hosted by individual CPSI presenters ("leaders") in their own cities. These include Andre de Zanger (New York City), Win Wenger (Arlington, Virginia), Dick Spady (Seattle Washington), and Gus Jaccaci (various sites in Vermont and upstate New York). As for previous hardcopy publications of this work, very little has been actually published. The fractal table was published by Gus in a trade magazine and several of his own books; a summary of the fractal paper was published in the symposium volume of a Systems meeting in Durban, South Africa; an early version of one of my gravitational papers on the "location" charge was published by my father in his last book ("Enveloped in Glory"); finally, the cosmology map and accompanying text were at one time included in the on-line edition of the World Book Encyclopedia (under the heading "Universe"). (Remarkably enough, this map has also found its way into an opera ("The Library of Maps") written by Moira Roth and Pauline Oliveros).

I am setting down this historical record simply to help get the facts straight about the evolution of the papers and the ideas, but this effort can only be approximate at best, since these ideas and papers have gone through many revisions over the years, and usually the older papers have been discarded without notice as the newer versions have arrived (see below).

As to the matter of authorship, except where explicitly noted otherwise, I am the sole or principle author of all the articles, tables, and diagrams on the website, and in either case, I am solely responsible for their "scientific" content. The major contribution by Gus to this work has been (in my view) in the creation of the structure and dynamics of the General Systems aspects of the theory, and in his attention to the social, philosophical, and epistemological relevance of the work. Finally, Gus's unstinting support and "cheer leading" over the 25 years through which this work and our collaboration evolved, has been a crucial element of its success and completion. Without his emotional support and belief in my vision, I do not believe this work could have been brought to fruition.

Along with George Land, Gus developed a [4-part General Systems model](#) of the dynamics of growth (Gus expanded and renamed Land's stages as: "Gather, Repeat, Share, Transform"). This dynamic fitted beautifully with a 4-part structural hierarchy of natural organization which I had independently developed (Unit, Pair, Group, Emergent New Unit), and the Land-Jaccaci dynamic has been incorporated in the [Fractal Table of Natural Organization](#). Gus is also responsible for encouraging the expansion of the core 4x3 system metric to a 4x4 format in the fractal table; I developed the "Metaphysical Realm" only at his insistence. Gus is also responsible for recognizing the vertical component of the system metric - the organizing metric runs both horizontally and vertically in the fractal table. Finally, Gus helped with the birth of the Tetrahedron model from its earlier triangular form, although I am responsible for its detailed development. Gus has been particularly active in the development of the 4x4 grid pattern (the Metamatrix®), a general model which has also been successfully elaborated by other authors (Jamie O'Boyle, for one). Gus also excels in speaking and writing skills, his intuitive appreciation for both scientific and metaphysical issues, and in his ability to interpret the scientific aspects of my work to a lay audience, especially emphasizing its significance for a new cosmology. But as I said above, for me it has always been Gus's emotional support and enthusiasm which has been so important in carrying forward what has otherwise been a mostly lonely (but inwardly very rewarding) quest. (Lately, the internet has also eased my sense of isolation. I can't praise this invention enough! To my mind, it is the single greatest advance in publishing and communication technology since the invention of the printing press.)

## CPSI

[CPSI](#) - the Creative Problem Solving Institute - is a private organization located in Buffalo, NY, dedicated to fostering creativity. It was founded by Alex Osborn in 1954 and has two meetings a year, a large one in Buffalo (and recently, other venues) around the time of the summer solstice, which in good times approached 1,000 participants from more than 30 countries, and a much smaller winter conference in January in San Diego, CA. My father, who was an expert and a published author of several books on creativity and the education of gifted children (some written expressly for CPSI), had attended the summer conference for many years and eventually asked me to join him in 1980. This was my first CPSI experience and there I met Gus who was with my father in a workshop or "think tank" centered on the topic of General Systems. Because of the similarity of our interests, Gus and I almost immediately became friends and colleagues and I for the first time had an outlet and an audience for my ideas.

I attended CPSI each summer between 1980 - 86, and then after a hiatus following the deaths of my parents, from 1990 - 2002. I attended CPSI's 50th anniversary celebration in 2004. Each year, generally during the winter, I would write 2 or 3 papers for the CPSI summer conference and its General Systems group, organized by Gus, and sometimes another paper for other small creativity conferences which spin off CPSI. Because I was working full time at Cornell and elsewhere most of these years, I did not do much additional writing, as CPSI was my only outlet. So the slow but steady annual pace of the CPSI conference was a large reason why the work took so long to do, in addition to the fact that it has always had to be an "after-hours" hobby. Still, CPSI and Gus are perhaps the only reasons the work got done at all, until I discovered the internet and began my webpage in the fall of 1996. From that point forward I wrote for my website in addition to CPSI, and now I write first for the website and only secondly for any other venue.

Without CPSI, my creativity would have had no outlet during the period of its initial flowering, so I owe this organization, my father, and Gus a tremendous debt of gratitude. I doubt I would have still been writing by the time the internet showed up to save the disenfranchised from obscurity, isolation, and cynical frustration.

### **Chronology - Papers, "CPSI" Talks, Website Postings, and Ideas (most dates approximate)**

**June 1975** - "Creativity gene" turns on (like a light switch!) and I begin writing (age 38)

**Dec. 1976** - Finished [astrology Sun-Sign birth-death study](#)

**July 1977** - I turn 40 and begin to read Einstein

### **1980**

June - My first CPSI, Buffalo State College (South Campus) - meet Gus.

Fall - Attended meeting in NYC of Ed Haskell's "club", talked about gravitation paper;

Dec. 5 - 1st record of "Organization of Nature Table"

### **1981**

Jan. 29 - "Location" as the charge of gravitation: Paper submitted to the journal *Nature*: rejected.

Summer - 1st drawing of "Spacetime Map of the Universe"

Nov. - Gravitational "location" charge recognized as a symmetry debt of light's non-local energy state

Dec. 8 - "Gravity is matter's memory it once was light" (firm record)

### **1982**

Jan. - (Gus) GRST General Growth Stages published in "A Technology of Love" (in *JC Penney trade journal*)

"Location" paper published in my father's book: *Enveloped in Glory* (privately printed) (Prof. John Curtis Gowan)

Particle creation and proton decay; the "X" boson and the baryon (leptoquark) neutrino

CPSI talks:

Unified Field Theory;

A Spacetime Map of the Universe

4x3 human life stages models:

4x3 Unified Field Theory models

"Symmetry debt" concept (Noether's Theorem) extended to all four forces

August - Sheldrake, NY meeting with Eve Neuhaus and Gus

### **1983**

April - The Weak Force Mechanism paper

CPSI talks:

"Unity Theory: A New Synthesis" - 4 sessions on physical Universe, 4 sessions on Social Universe (Social Architecture)

### **1984**

Spacetime Map - Text  
Unity Scholars founded by Gus (date?)  
CPSI talks:

"Unity Theory: A New Synthesis"  
"Unified Field Theory - Principles of Order and Energy Conservation"  
"The Hierarchy of Nature"  
"A Spacetime Map of the Universe"

### 1985

Weak Force Mechanism paper submitted to physics journals - rejected  
4x3 human development charts  
April: "The Genesis of Matter"  
CPSI talks:

Universal Hierarchy and Transformation  
Unified Field Theory  
Spacetime Map

### 1986

(Both my parents die this year, my mother in March and my father in Dec. Also, I leave my job (after 20 years) at Cornell; by far, the worst year of my life.) (I did not attend CPSI 1986-89)  
Jan. 28 - Spacetime Map - Sent to *Astronomy* magazine  
Human life history 4x3 general systems models  
Metamatrix developed by Gus (?date?)  
Winter 86-87 - "A Unified Theory of Energetic Symmetry": *the charges of matter are the symmetry debts of light*

### 1987

(Metaphysical Realm (fractal table 4th level) (?date?)  
May 13 - Spacetime Map - sent to *Sky and Telescope* magazine - rejected  
May 8 - Spacetime Map - rejected by *Astronomy* magazine

### 1988

No records

### 1989

Nov. - *Training and Development Journal* - Organization of Nature table and Metamatrix map Table: "A General Systems Model of Natural Organization" (article published by Gus)

### 1990

Feb. ? Meeting in Vt. with Gus and friends - videotape talk on "Unified Field Theory"  
CPSI talks:

"General Systems Coordinated Archetypes"  
"The Unified Field Theory and Astrology"

"A General Systems Approach to Problem Solving"  
"A Spacetime Map of the Universe"

4x3 human life history models with astrological elements and qualities

### **1991 - 1993**

No records (however, I did attend CPSI and give talks)

### **1994**

Founding of WISA (World Institute of Social Architecture) by Gus - convention of Social Architecture talks in CPSI homeroom

CPSI talks:

Social Architecture - WISA Yearbook: "The Hierarchy Behind the Structure"  
"Development of the Land-Jaccaci-Gowan General System"  
"Social Architecture and General Systems"  
"The Rational Model: Big Bang Cosmology"

A human development model combined with a social architecture model - large paper.

### **1995**

CPSI talks:

WISA Yearbook: "A General Model for Social Architecture"  
"Hierarchy of Natural Systems" (4 levels)  
"Unified Field theory" 4x4 diagram and paper

"The Future Factor" Workshop by Gus - the Metamatrix  
Win Wenger conference in November, Arlington VA Talk:

"Spacetime, Light, and Particles: the Origin of Pattern and Dynamics in Natural Systems:  
Introduction to the Physical Theory"

### **1996**

April 20-21 De Zanger in NYC "Creativity Expo" talks:

"The Universe as a Problem Solving Fractal System" (how to return to symmetry)  
"A Universal Creative Pattern and its Expression in Human Thought"

CPSI talks:

"Symmetric and Asymmetric States of the Cosmos" ("Triangle" diagrams - the energy diagrams)  
"The Fractal Universe: Implications for Creativity"  
"A General Systems Approach to Social Architecture"  
"A Spacetime Map of the Universe"

Fall - General Systems website established.

<http://www.people.cornell.edu/pages/jag8/index.html>

## 1997

CPSI talks:

Spacetime Map  
Cosmology of Love (with Gus)  
The Fractal Organization of Nature  
A Conceptual Approach to a Unified Field Theory

"Triangle" diagrams: "Symmetric and Asymmetric Energy States of the Cosmos"

Marylyn Ferguson at CPSI homeroom - search for diagrammatic representation (beyond matrix or grid) of Unified Field Theory in progress

A series of small papers for CPSI:

The Human Connection  
The Nuclear System  
Creativity and Problem Solving  
The Problem of Evil  
The Soul  
The Creation Event

Fall (?) - "Grail" Diagrams developed

Nov. - Connection between time and gravitation

Nov. - The "Hourglass Diagrams" text

Nov. - "General Systems and the Unified Field Theory"

Dec. - "The Fractal Organization of Nature" - paper to be published in SSCC'98 symposium volume - see next below

## 1998

The "Grail or "Hourglass" diagrams are presented at CPSI

CPSI talks:

"Truth and Beauty in the Unified Field Theory"  
"The Fractal Structure of Nature"  
"A Spacetime Map of the Universe"  
"Truth and Beauty" - separate small paper

July - "Physical and Metaphysical Correlates of the Grail Diagrams"

Sept. 22-24 - Durban South Africa: *International Conference on Systems, Signals, Controls, Computers*.

Published in the symposium volume: "The Fractal Organization of Nature" text and table (my copy of this volume is in the Cornell library system).

Nov. 10 - Time and gravitation create each other in a self perpetuating process initiated by the collapsing wave function of light and space.

Nov. - "Transformations of Space and Time"

Nov. - "[Grail Flower](#)" diagrams - discovered at Win Wenger's conference

## 1999

CPSI Talks (June):

"Transformations of Time and Space"

"The Fractal Organization of Nature"  
"A Spacetime Map of the Universe"

July 12 - paper: "Gravity, Entropy, and Thermodynamics"  
Oct. - "The Formation of Matter and the Origin of Information"  
Nov. - "The Information Pathway" (table: "The Information Ladder")  
Nov. - "Symmetry Principles of the Unified Field Theory" (large paper)  
Nov. 15 - Submitted to *Archives of Physics* (xxxlanl.gov): "Gravity, Entropy, and Thermodynamics"  
Nov. 27 - Submitted to *Archives of Physics* (xxxlanl.gov): "A Spacetime Map of the Universe" - (red shift appendix submitted May 7 2001) (all Archives papers have been repeatedly revised and resubmitted)

## 2000

March - moved from Brooktondale farm (31 years residence) to Ithaca apartment  
June - CPSI Futureum homebase: Michael Snyder's quilt (archetype symbols)  
June - 3-dimensional form of the double "Grail" diagram discovered by my wife Esther (at CPSI)  
June - The Trinity of Energy - diagram  
CPSI talks:

"Teilhard de Chardin: Prophet of the Information Age" (with Ted Callisto)  
"Symmetry Principles of the Unified Field Theory"  
"The Information Pathway" (diagram: "The Information Ladder")  
"A spacetime Map of the Universe"

July 4 - Submitted to *Archives of Physics* (xxxlanl.gov): "Symmetry Principles of the Unified Field Theory"  
July (?) - "A Spacetime Map of the Universe" becomes the no. 2 article under the heading "Universe" in the on-line edition of the *Worldbook General Reference Encyclopedia*  
Aug. 9 - Submitted to *Archives of Physics* (xxxlanl.gov): "The Weak Force Mechanism"  
Oct. 11-15 - [Dick Spady's Seattle Conference](#) talk:

"Unified field Theory" (and the genesis of the tetrahedron diagrams)

Fall - "Ordering the Quark Flavors"  
Oct. - "An Overview of the Astrological System of the Grail Diagrams" (updated)  
(date?) "Aquarius and the Origin of Life"  
November 15 - 9th annual "Double Festival": Win Wenger, Gaithersburg, Va Talk:

"Unified Field Theory"

Dec. 10 - Synoptic statements concerning spacetime, light, and particles are added to the index page of the website.  
Dec. 23 - (large paper) "Entropy, Gravitation and Thermodynamics"

## 2001

January - The Cosmic (energy) Tetrahedron - diagram  
May 6 - learned how to calculate red shift ("Z") values from the Spacetime Map. Paper: "Cosmological Red Shift (Z) Values for the Spacetime Map"  
June 11 - "The Cosmic Tetrahedron" - large paper  
June 14 - "The Connection Between Entropy and Symmetry" - small paper  
June - Set up the memorial website for Prof. John Curtis Gowan's books  
CPSI talks:

"Chardin and the "Omega Point" (with Ted Callisto)

"Nature's Creative Dynamic"

"Grand Unification: Designing and Creating the Planetary Renaissance" (with Gus)

Nov. - submitted "Entropy, Gravitation, Thermodynamics" to the on-line electronic journal *Entropy* - rejected

Nov. - "The Connection Between Gravitation, Time, Entropy, and Symmetry"

Nov. 14 - "Entropy and Gravity" - a small paper

## 2002

Jan. - "A Description of Gravitation" (large paper)

Jan. - "The Gravity Diagrams" (2)

Feb. 24 - "The Universal Gravitational Constant G"

Feb. 24 - Extending Einstein's Equivalence Principle

March 29 - "Principles of a Unified Field Theory: a Tetrahedral Model"

March 31 - "The Origin of Space and Time"

April 6-9 - Forum Foundation Seattle WA talk (Dick Spady conference):

"The Unified Field Theory: A Tetrahedral Model"

April 13 - The Origin of Gravitation: Time and the Conservation of Entropy

CPSI talks:

"A General Systems Analysis of the Creative Process in Nature"

"A Spacetime Map of the Universe"

July 10 - "Spatial Entropy vs Temporal Entropy" small paper

Summer - (?) begin writing an introduction and chronology for the Grand Unification book planned with Gus

July 21 - A graph of the Cosmic expansion is added to the Spacetime Map, demonstrating that observations from the literature can be realistically plotted on red shift and dimensional parameters generated from the map, a crucial empirical demonstration of the map's validity and utility.

Fall - 4 small gravity papers and the "Vermont Vision" diagrams connecting the Tetrahedron and Grail Diagrams

## 2003

March - move from Ithaca NY to San Luis Obispo CA

Spring - Write more gravity and entropy papers - the relation between gravitation, causality, conservation, and history becomes a dominant theme. California papers include:

"Proton Decay"

"The Double Conservation Role of Gravitation"

"Spatial and Temporal Entropy" (see also 2002)

"A Summary of Gravitation"

Fall - write 12 small papers (sections 1-12) "Introduction to the Papers" for the TOE book; revise the red shift discussion in the Spacetime Map paper. Revise and post preliminary drafts for the Theory of Everything book.

## 2004

Spring - Rewrite the first four chapters of the TOE book. The "Newton and Darwin" negentropic connection is made during visit and conversations with Gus.

June - 50th CPSI. Talks:

"Newton, Darwin, and the Origin and Abundance of Life in the Universe"

"Spiritual and Scientific Principles of the Tetrahedron Model"

A memorial talk about my father's work, with a 4x4 model of the metaphysical realm.

Fall and Winter - discovered symbolic representations for gravity and entropy "conceptual equations":  
- $Gm(S) - (T)m = 0$  (the exact form of this equation has changed several times)

Wrote 5-D spacetime map paper ("Juan Maldacena")

"Commentary on the Rational Mode of the Metaphysical Realm"

## 2005

(revision of all papers, tables, and diagrams on website is a continuous process - often the entire website is revised every 6 months or even more frequently - especially since move to California)

New papers include:

"Feynman" article regarding causality

"The connection between Inflation and the Big Crunch"

The weak force "bridge" article

March-April - Causality replaces Information ("Causality vs Information")

May - "The Intrinsic Motions of Matter"

June - DeBroglie matter waves

Significance of the disconnect between matter and its entropy drive (time) for charge conservation (added to "The Time Train" paper)

July - "The Higgs Field vs the Spacetime Metric"

July - E-book is put up in raw form

Dec. - Tetrahedron in 4x4 form and tetrahedron vs conservation law tables (new)

Dec. - Gus sends his "Preface"

## 2006

Jan. - "Nature's Fractal Hierarchy" - a composite article for the E-Book only

Jan. 16 - Realized the gravitational "concept equations" have a solution (theoretically) in absolute temperature - since they are entropy representations:  $(S) - (T) = 2.7k$  (currently). (??)

Jan. 27 - E-Book posted in zip file format for easy, "one click" download

Jan. - Reinterpretation of tetrahedron "faces"

Feb. - "Is there Life After Death?"; also "immortality tetrahedron" (biological face)

Spring - Complete revision of all papers, tables, and diagrams on website

July - Short paper on the conservation principles of the tetrahedron (for Gus)

June-July - Commentary on the physical elements of the Spacetime Map

August - Light is the field vector or messenger of causality

Aug. (?) - Update all Physics Archive papers in HTML (except "W" IVB paper)

Sept. - Update all TOE book papers of major significance

22 Sept. - "Alternative Reality" list developed (incorporated in "gauge5.html")

Oct. - Local and Global Symmetries - 4 papers (revisions into November)

## 2007

- Jan. - update physics archive articles with respect to charge invariance
- Jan. -  $-Gm(S) - (T)m = 0$  (addition of  $m$  to  $(T)$  in "concept equation" of the gravitational conversion of space to time)
- Feb. - Revision of the Higgs and weak force IVB paper
- Feb-March - "Higgs Cascade" papers and table (4 papers plus revision of Higgs boson vs spacetime metric paper).
- April - "Higgs cascade table" appended to "The "W" IVB and the Weak Force Mechanism" paper, and sent up to the physics archive as a revision of that paper (22 April).
- May 6 - 13 - Gus Jaccaci visit from Maine (followed by Hunter Ingalls). Develop the "Higgs Cascade" Tetrahedron series (4 tetrahedrons representing the stages of the cascade).
- Aug. - New paper: "The 'Tetrahedron Model' vs the 'Standard Model' of Physics: A Comparison". Read Ian Stewart "Symmetry" books. Suggest spacetime is 8-dimensional (because of "octonion" number system). Remove "deficit spending" model of gravitational action from website papers. Also change sign of  $(T)m$  in "concept equation" of gravitational conversion of space to time:  $-Gm(S) = -(T)m$ ;  $-Gm(S) + (T)m = 0$ . (later this is reversed: whatever the sign of  $-Gm(S)$ ,  $(T)m$  must be the opposite: negative gravitational entropy must produce positive temporal entropy to balance total Cosmic positive spatial - positive historical entropy equation.)
- Sept. - Begin general revisions of papers in 'E-Book'. Tangential connection of gravity to "bulk" historical spacetime via "present Moment" of matter is responsible for weakness of gravity. Tangential connection is necessary to protect elementary charge and mass from enervation by temporal entropy drive. However, even small value of  $G$  means that eventually proton decay must occur. Complete revision of "Equivalence" paper 30 Sept.
- Oct. - Read James Gleick's book "Chaos" and discover that our  $4 \times 4$  "matrix" model conforms to "chaos" model. Revise fractal papers to this effect.

## 2008

- Feb. - Read Robert Oerter's book "The Theory of Almost Everything" and realize I have overlooked the meson exchange field of the strong force in compound atomic nuclei ("Yukawa" field). Revise all strong force sections in all papers. Revise "Symmetry Principles of the Unified Field Theory" paper and send new version up to Physics Archives. The meson field is active as an alternative charge carrier of quark partial charges in baryon transformations in both the weak and strong forces - which all makes sense.
- April - Revisions of E-Book largely completed.
- April - Wrote a short paper for Gus concerning the connections between physics and symbiosis - not posted on the website.
- June - saved entire E-book, both as individual files and as a single zip-file, on the WebCite Archive (see below) (also saved dad's books from his memorial website).
- June - Mass is a form of energy stored in time; charge is a form of symmetry stored in time; gravity is form of entropy stored in time; history is a form of causality stored in time; life is a form of information stored in time; art is a form of experience stored in time.
- July 1 - Paper: "The Tetrahedron Model in the Context of a Complete Conservation Cycle".
- Aug. - Write short summary paper: "Light and Matter" (light.html)
- Fall, 2008: Begin new cycle of revisions, doing papers in order as they are ranked in popularity on the Google Analytics website (to which I now subscribe).
- Dec. 20 - Finished revisions of the paper: "[Expanding Einstein's Equivalence Principle](#)". This essentially completes the "scientific" or "formal" collection of ideas needed for the Unified Field Theory. This may well be the most important paper on the website. To date, I have finished revising the first 50 papers on the website in order of their popularity, as recorded by Google Analytics (except for a few revised more recently than the last 6 months). I am getting about 100 hits per day on the website, about 90 of which are new visitors. As always, the "Spacetime Map" is the overwhelming favorite.

## 2009

Jan. 23: Finished revising all papers and diagrams and tables in the E-Book. All papers and tables (and diagrams) in the E-Book have been saved on the WebCite Archive.

Feb. 9: New paper: "The Strong Force: Two Manifestations" (meson.html) under Section 18 in the "Intorduction to the Papers" section.

Have finished revising all science papers both in and out of the E-Book, except for the Spacetime Map. The general systems papers (including the fractal papers) remain to be done. Google Analytics now counting over 120 URLs. Have resubmitted all revised papers to Webcite Archive.

March 2: Sent Richard d. Stafford's spacetime map paper up to the Webcite Archive, so I can reference it in my own spacetime map paper.

March 9: Finished revising all papers, including General Systems astrology papers, and last of all, the Spacetime Map paper. Google analytics now counting 147 pages (no diagrams, all text papers or tables). Next task: move the website from the Cornell server (which is closing) to the Google server. All papers and revisions saved on the Webcite Archive, and an Earthlink mirror site, and on four Zip disks, one of which is stored in my safety deposit box at the bank.

26 June: Gave talk on Spacetime Map at local conference ("Science, Wisdom, and the Future"). Wrote short summary paper for publication in conference proceedings.

28 July: Wrote "Destruction of Information" - response to Susskind's book "The black Hole War".

6 Aug: Wrote "A Short Course in the Unified Field Theory". Gave a series of 3 informal talks to local group (Josephine's house).

28 Oct: Wrote "About Gravity" (short summary).

Fall 2009: Put up ~ 49 Google "Knols" of major papers. Also sent many papers to new "vixra" archive for "alternative" science. Have written abstracts for many papers for this archive and for the Google "Knols", and revised a few (the "Local Gauge Symmetry" papers).

Christmas, 2009: "Time is gravity's gift to the Cosmos".

## 2010

Feb: Write "Why Identity Charge is Hidden" (postscript to weak force "Identity" paper).

March: Write "Postscript II" for "Is There Life after Death". Also wrote obit for Karen Arms.

April: Finished last revision of "A Short Course in the Unified Field Theory".

May: Revised weak force papers with respect to neutrino oscillations.

Summer: No writing during summer (much needed rest). Visit Crater Lake.

Aug: Begin new round of revisions of all papers - hopefully the last!

Oct: Negative energy is the foundation rationale for gravitation - to balance positive energy of the "Big Bang". All else follows from this primary energy-conservation role. (See: elements.html Nov. revision)

Dec (Christmas): Finish revising all major papers (105).

## 2011

Jan. Finish revising 120 papers (everything except the big astrology papers). Add new data to the "Spacetime Map" graph and replot data and limit lines. Write new section ("Postscript") for the "Higgs Boson vs the Spacetime Metric" paper.

June: Have continued spotty revisions until present time. No new papers, but some of the larger ones have been split into two. I added a new section to "Is There Life After Death?". The symposium volume from the "Science, Wisdom and the Future" conference (several years ago now) is expected to be published this month (Collins Foundation Press, the conference sponsors, located in Santa Margarita, CA.). I have a short summation of the "Spacetime Map" in it. I expect to donate my copy to the Cornell University library

system. Dr. Richard Stafford has resurfaced with a color diagram of his own spacetime map, which I have linked.

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