

SCRAPS 2003

SCRAPS2003

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Name	Size	Type	Last Modified
SCRAPS03	8,185	WordPerfect 9 Document	2003-11-01 3:00 PM
COSCUR	7,482	WordPerfect 9 Document	2003-11-01 9:34 AM
TWOYEARS	5,876	WordPerfect 9 Document	2003-09-23 12:30 PM
INFRAST1	8,399	WordPerfect 9 Document	2003-08-22 6:17 PM
APHORJH	8,647	WordPerfect 9 Document	2003-08-22 12:35 PM
FULCRUM1	4,411	WordPerfect 9 Document	2003-08-14 5:34 PM
DMV	17KB	WordPerfect 9 Document	2003-08-13 6:19 PM
FULCRUM4	34KB	WordPerfect 9 Document	2003-08-11 7:19 PM
calcl	3,284	WordPerfect 9 Document	2003-08-11 6:45 PM
FULOGS	8,621	WordPerfect 9 Document	2003-08-06 8:45 PM
FULCRUM2	23KB	WordPerfect 9 Document	2003-08-04 11:07 AM
FULCRUM3	6,660	WordPerfect 9 Document	2003-08-04 10:00 AM
FULCRUM0	50KB	WordPerfect 9 Document	2003-07-30 5:43 PM
JULY2803	6,210	WordPerfect 9 Document	2003-07-28 2:51 PM
ENTMAN	6,516	WordPerfect 9 Document	2003-07-26 11:38 AM
MANIFEST	5,976	WordPerfect 9 Document	2003-07-25 6:37 PM
KRIEG2	6,141	WordPerfect 9 Document	2003-07-21 3:44 PM
Judy0307	5,615	WordPerfect 9 Document	2003-07-21 1:07 PM
SYMBLANG	5,594	WordPerfect 9 Document	2003-07-14 11:31 AM
KRIEG1	6,685	WordPerfect 9 Document	2003-07-10 4:57 PM
WALLSTJR	17KB	WordPerfect 9 Document	2003-07-09 6:32 PM
21CENTRE	9,788	WordPerfect 9 Document	2003-06-29 10:27 AM
SPINOUTL	6,228	WordPerfect 9 Document	2003-06-07 12:11 PM
NOWIDE2	13KB	WordPerfect 9 Document	2003-06-07 10:10 AM
NATLEM	6,116	WordPerfect 9 Document	2003-06-06 9:22 AM
APH2003	13KB	WordPerfect 9 Document	2003-05-28 3:09 PM
BIRDS3	6,999	WordPerfect 9 Document	2003-05-25 9:18 AM
KRASNIK3	5,484	WordPerfect 9 Document	2003-05-23 5:16 PM
CLIMBERS	10KB	WordPerfect 9 Document	2003-03-19 10:41 AM
THELITE	4,917	WordPerfect 9 Document	2003-03-16 1:59 PM
IDESMRCH	5,030	WordPerfect 9 Document	2003-03-16 9:46 AM
Judyrepl	5,712	WordPerfect 9 Document	2003-03-14 6:54 PM
SCRAPINT	6,055	WordPerfect 9 Document	2003-03-12 8:19 PM
THEOLOGY	14KB	WordPerfect 9 Document	2003-02-08 10:51 AM
NASAHIST	7,739	WordPerfect 9 Document	2003-02-02 3:47 PM
HEARTJOY	15KB	WordPerfect 9 Document	2003-01-27 9:20 PM
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LINEAR	12KB	WordPerfect 9 Document	2003-01-14 12:14 PM
PHANOS02	9,105	WordPerfect 9 Document	2003-01-10 11:10 AM
CAUSTIME	11KB	WordPerfect 9 Document	2003-01-06 8:26 PM
MERLIN1	3,232	WordPerfect 9 Document	2003-01-02 6:12 PM

NOT PRINTED

Remains { FULCRUM1
FULCRUM4
calcl

DIRECT & RECURSIVE
L=1

Recursive Formula

~~July 2803~~

~~Some Thoughts on my 85 Birthday~~

PERHEL

added

SCRAPS 2003

1. MERLIN.WPD	03/01/01	PEACE ON EARTH
2. CAUSTIME.WPD	03/01/06	CAUSALITY AND THE DIRECTION OF TIME
3. PHANOS02.WPD	03/01/10	FLIGHT FROM PHANOS (continuation I)
4. LINEAR.WPD	03/01/14	ESCAPE FROM LINEARIZATION
5. TIMATRX2.WPD	03/01/18	TIME TABLES PART I
6. TIMATRX3.WPD	03/01/18	TIME TABLES PART II
7. BMATRIX1.WPD	03/01/23	BARYON MATRIX PART I
8. BMATRIX2.WPD	03/01/23	BARYON MATRIX PART II
9. HEARTJOY.WPD	03/01/27	THE JOYFUL HEART
10. NASAHIST.WPD	03/02/02	SOME SPACE FLIGHT NOTES
11. THEOLOGY.WPD	03-02-08	THEOLOGY: CENTURY 21
12. SCRAPINT.WPD	03-03-12	INTRODUCTION TO ESSAYS
13. Judyrepl.wpd	03-03-14	Letter to Judy "Spurs to Thought"
14. IDESMRCH.WPD	03-03-15	THOUGHTS ON THE IDES OF MARCH
15. THELITE.WPD	03-03-16	ELITISM ?
16. CLIMBERS.WPD	03-03-19	THE BASIC CHALLENGE
17. WALLSTJR.WPD	03-04-09	TAKE OVER vs TAKE DOWN
18. KRASNIK3.WPD	03-05-23	SIXTY NINTH ANNIVERSARY
19. BIRDS3.WPD	03-05-24	<i>BIRDS AND OMENS—David La Chapelle</i>
20. APH2003.WPD	03-05-28	APHORISMS FOR 2003
21. NATLEM.WPD	03-06-05	NATION OF LEMMINGS
22. NOWIDE2.WPD	03-06-06	THE WIDTH OF NOW
23. SPINOUTL.WPD	03-06-07	A SPIN OUTLINE
24. 21CENTRE.WPD	03-06-29	SOME FORECASTS FOR CENTURY 21
25. ENTMAN.WPD	03-07-03	AN ENTIFICATION MANIFESTO
26. KRIEG1.WPD	03-07-10	A MORPHOLOGY OF WAR
27. SYMBLANG.WPD	03-07-14	SYMBOLIC LANGUAGES
28. Judy0307.WPD	03-07-21	Letter to Judy "Unilateral Preemption"
29. KRIEG2.WPD	03-07-21	THE SPECIES OF WARFARE
30. FULCRUM0.WPD	03-07-21	FULCRUM NUMBERS PART I
31. FULCRUM2.WPD	03-07-21	FULCRUM NUMBERS PART II
32. JULY2803.WPD	03-07-28	SOME THOUGHTS ON MY 85 TH BIRTHDAY
33. FULCRUM3.WPD	03-08-06	FULCRUM NUMBERS PART III
34. FULOGS.WPD	03-08-06	FULCRUM NUMBERS PART IV
35. DMV.WPD	03-08-08	EMAILS
36. INFRAST1.WPD	03-08-13	MENTAL INFRASTRUCTURES
37. APHORJH.WPD	03-08-22	HIGHTOWER APHORISMS
38. TWOYEARS.WPD	03-09-11	PATRIOT DAY
39. PERHEL.WPD	03-10-11	KRONOS AND KAIROS
40. COSCUR.WPD	03-11-01	COSMIC CURIOSITIES

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41.LIFESAC.WPD	03-11-07	THE SACREDNESS OF LIFE
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43.MOVEDAY.WPD	03-11-14	A DAY AT THE MOVIES
44.VENN.WPD	03-11-24	THE >2 UNION PARADOX
45.CULTCHAR.WPD	03-12-20	THE PRESENT AMERICAN CULTURE
46.PHILKING.WPD	03-12-27	QUOTES OF SOME PHILOSOPHER KINGS



tangnefedd ar y ddaear



air talamh sith



siochain ar talamh



Peace on Earth



WELSH
SCOTTISH
IRISH

CAED MILLE FAILTHE
100,000 WELCOMES
- GAELIC

CAUSALITY AND THE DIRECTION OF TIME

Who controls the past controls the future; who controls the present controls the past.

—George Orwell 1984

The Direction of Time:

Does time always move from past to future? The direction or “arrow of time” has been defined in terms of the second law of thermodynamics as the direction in which entropy increases. And locked into this direction of time is the concept of causality. We conventionally assume that causality must operate in the same direction as the flow of time, meaning that consequences never play a causal role. But in the case of living systems, it is recognized that they are able, locally and temporally, to violate the second law of thermodynamics. This capability of living systems infers that they may also, locally and temporally, be able to alter the direction of time. This carries the additional implication that living systems can create situations in which consequences do play a causal role. Indeed, this concept of the power of living organisms to reverse the direction of time and causality has been given a name, “purpose”. Living systems do direct sequences of events toward selected goals which conflicts with the idea that the future is solely determined by past causes. A power to overrule some aspects of the determinism or necessity present in the natural order seems to be possessed to some extent by all life forms.

The Present and the Now:

We distinguish between the **present** and the **now**. We may define the **present** as an instant that moves along the line of time in a direction past to future, but at possibly different rates. We define the **now** as a zone in the stream of time in which the second law of thermodynamics has been locally violated. Within this zone antecedent-subsequent are no longer locked to cause-effect. Causality is free to move both from prior to later and from later to prior, and consequences may play a causal role. Living organisms seem to be able to create such “now zones”. Whenever such a zone occurs in the stream of time it is in many respects analogous to turbulence in a fluid stream where the flow may be in several directions at once. Such an intentionally controlled zone or interval of time may be thought of as a turbulent eddy in the stream of time..

Notes:

- The **present** is the only period in which energy may be transferred. The **now zone** is the time interval in which information may be transferred. [and/or created]
- The Hopi view of a determinator in the future may be considered the leading front of a now zone

Questions:

Is there an holographic analogy in time where the part, a portion of time, may contain the whole?
Are there different topologies for time as there are for space?

Ref:

See Global Consciousness

The peaks occurring before an event
such as 9/11 suggest a "width of now"
hypothesis

See Global: "Head and shoulders"

"Tradition causality appears violated
consequences become causes

[\Rightarrow Bushes could have caused 9.11]

Histeron proteron = later before earlier

[Continued from FLIGHT FROM PHANOS, 2001 #35]

Dion: *You called me? You said you wanted to negotiate something.*

Auth: *Yes, I would like to restart the play, but want to develop it a bit further on my own before you take over. I feel you took over the play too soon. I do agree that characters be themselves and let the scenario unfold accordingly, but I needed more time to "set the stage" so to speak.*

Dion: *And now you want to negotiate. I am already who I am and see nothing to negotiate. We were defined in the first three exchanges and now you say we took over too soon. You are only saying that you wish us to be puppets with you continuing to be the puppeteer. We don't do that kind of theater.*

Auth: *Your stubbornness makes it impossible to negotiate anything. So forget restarting the play. I will start a new play with more cooperative characters.*

Dion: *Ha, you pretend to negotiate while you continue to threaten to play your trump card, of "I can shut down the play if you don't do it my way". You complain you can't negotiate with me because I am stubborn. Wake up! No one can negotiate with you because you negotiate from a "do it my way or else" position. That's not negotiation that's dictation with a shabby camouflage.*

Auth: *Ha yourself, I am going to restart the play but without your having a part in it. So drop dead, get off the stage and On with the play.*

Dion: *OK, Mein Fuhrer, take it away and see what happens.
[aside, What fools these authors be]*

Auth: *Nag, Zav, I want to restart the play. I have fired Dion, it is impossible to create a play with such a character. His take-over ego not only extends to his dominating everyone in the play but to the writing of the play itself.*

Nag: *Great! I warned you about him. He is the most devious egomaniac among all the gods. He takes credit for everything, disrupts every meeting, and spins the blame for all troubles onto others. Without him the forest would be a beautiful and peaceful place without tension and conflict. We could all come and go in safety and could welcome strangers such as Zav without having to be suspicious or fearful.*

Zav: *But, if I may ask, what is the substance of the play, the drama, the reason for the play, if Dion is not in it? A peaceful forest is excellent for a painting, but insipid for a play.*

Auth: *Hmm, I have to think about that. Does a play really have to have conflict? Must there always be a villain? Cannot there be just heroes?*

Zav: *Would anybody come see such a play?*

ESCAPE FROM LINEARIZATION

The real name of the box which entraps our thinking is *linearization*. Linearizing is a special form of organizing to which we seem addicted, (perhaps because it is simpler than most other forms). Our writing is linear, our music is linear, our movements from place to place are linear, and our lives themselves are lived linearly from past to future. We have consequently assumed time itself must be linear, with the corollary that causality is also past to future.

But in the 20th century technology allowed the beginnings of an escape from linearity. Movies, though displayed linearly, employed flashbacks, time could jump from present to past, then back to present, and later TV violated hard sequence by introducing instant replays. The result of all this was that time, though still one dimensional, was released from a single unitary sequence and could be re-organized into alternative sequences. (And this new concept of reorganizing a sequence is now cutting and pasting the human genome).

Following the escape from a unitary sequence to shuffled sequences comes the concept of multiple or parallel sequences. We display and view several subscreens simultaneously on the TV monitor. Kids seem to be able to handle this. They have not been entrained to the culture's traditional sacred notions of time. But even multiple shuffled sequences are still one dimensional. A further, and perhaps next, step out of the linearization box, beyond shuffling and parallel sequences, will be rate variation. Each parallel sequence may run at a different rate and a given sequence, shuffled or not, may alter its clock rate from time to time.

But none of the above makes the real break with linearization. Escape from linearization box will only come when we allow time, like space, to be multi-dimensional.

TIME TABLE: $T=T(G,M,R,\hbar,c)$
 $[T] = 1$

M	0	0.5	+1	1.5	+2	+2.5	+3
+3	G^2M^3/hc^4		$\sqrt{G^3M^6R^2/h^3c^5}$		GM^3R^2/h^2c		$\sqrt{GM^6R^6c/h^5}$
+2.5		$\sqrt{G^3M^5R/h^2c^6}$		$\sqrt{G^2M^5R^3/h^3c^3}$		$\sqrt{GM^5R^5/h^4}$	
+2	$\sqrt{G^3M^4/hc^7}$		GM^2R/hc^2		$\sqrt{GM^4R^4/h^3c}$		M^2R^3c/h^2
+1.5		$\sqrt{G^2M^3R/hc^5}$		$\sqrt{GM^3R^3/h^2c^2}$		$\sqrt{M^3R^5c/h^3}$	
+1	GM/c^3		$\sqrt{GM^2R^2/hc^3}$		MR^2/h		$\sqrt{M^2R^6c^3/Gh^3}$
+1/2		$\sqrt{GMR/c^4}$		$\sqrt{MR^3/hc}$		$\sqrt{MR^5c^2/Gh^2}$	
0	$\sqrt{Gh/c^5}$		R/c		$\sqrt{R^4c/Gh}$		R^3c^2/Gh
-1/2		$\sqrt{Rh/Mc^3}$		$\sqrt{R^3/GM}$		$\sqrt{R^5c^3/G^2Mh}$	
-1	h/Mc^2		$\sqrt{R^2h/GM^2c}$		R^2c/GM		$\sqrt{R^6c^5/G^3M^2h}$
-3/2		$\sqrt{Rh^2/GM^3c^2}$		$\sqrt{R^3hc/G^2M^3}$		$\sqrt{R^5c^4/G^3M^3}$	
-2	$\sqrt{h^3/GM^4c^3}$		Rh/GM^2		$\sqrt{R^4hc^3/G^3M^4}$		R^3c^3/G^2M^2
-5/2		$\sqrt{Rh^3/G^2M^5c}$		$\sqrt{R^3h^2c^2/G^3M^5}$		$\sqrt{R^5hc^5/G^4M^5}$	
-3	h^2/GM^3c		$\sqrt{R^2h^3c/G^3M^6}$		R^2hc^2/G^2M^3		$\sqrt{R^6hc^7/G^5M^6}$

Notation: In the above table h is used for \hbar , the Planck constant / 2π .

TIME TABLE: $T=T(G,M,R,\hbar,c)$
 $[T] = 1$

M	-3	-2.5	-2	-1.5	-1	-0.5	0
+3	$\sqrt{G^7 M^6 \hbar / R^6 c^{17}}$		$G^3 M^3 / R^2 c^7$		$\sqrt{G^5 M^6 / R^2 \hbar c^{11}}$		$G^2 M^3 / \hbar c^4$
+2.5		$\sqrt{G^6 M^5 \hbar / R^5 c^{15}}$		$\sqrt{G^5 M^5 / R^3 c^{12}}$		$\sqrt{G^4 M^5 / R \hbar c^9}$	
+2	$G^3 M^2 \hbar / R^3 c^8$		$\sqrt{G^5 M^4 \hbar / R^4 c^{13}}$		$G^2 M^2 / R c^5$		$\sqrt{G^3 M^4 / \hbar c^7}$
+1.5		$\sqrt{G^5 M^3 \hbar^2 / R^5 c^{14}}$		$\sqrt{G^4 M^3 \hbar / R^3 c^{11}}$		$\sqrt{G^3 M^3 / R c^8}$	
+1	$\sqrt{G^5 M^2 \hbar^3 / R^6 c^{15}}$		$G^2 M \hbar / R^2 c^6$		$\sqrt{G^3 M^2 \hbar / R^2 c^9}$		GM / c^3
+1/2		$\sqrt{G^4 M \hbar^3 / R^5 c^{13}}$		$\sqrt{G^3 M \hbar^2 / R^3 c^{10}}$		$\sqrt{G^2 M \hbar / R c^7}$	
0	$G^2 \hbar^2 / R^3 c^7$		$\sqrt{G^3 \hbar^3 / R^4 c^{11}}$		$G \hbar / R c^4$		$\sqrt{G \hbar / c^5}$
-1/2		$\sqrt{G^3 \hbar^4 / M R^5 c^{12}}$		$\sqrt{G^2 \hbar^3 / M R^3 c^9}$		$\sqrt{G \hbar^2 / M R c^6}$	
-1	$\sqrt{G^3 \hbar^5 / M^2 R^6 c^{13}}$		$G \hbar^2 / M R^2 c^5$		$\sqrt{G \hbar^3 / M^2 R^2 c^7}$		$\hbar / M c^2$
-3/2		$\sqrt{G^2 \hbar^5 / M^3 R^5 c^{11}}$		$\sqrt{G \hbar^4 / M^3 R^3 c^8}$		$\sqrt{\hbar^3 / M^3 R c^5}$	
-2	$G \hbar^3 / M^2 R^3 c^6$		$\sqrt{G \hbar^5 / M^4 R^4 c^9}$		$\hbar^2 / M^2 R c^3$		$\sqrt{\hbar^3 / G M^4 c^3}$
-5/2		$\sqrt{G \hbar^6 / M^5 R^5 c^{10}}$		$\sqrt{\hbar^5 / M^5 R^3 c^7}$		$\sqrt{\hbar^4 / G M^5 R c^4}$	
-3	$\sqrt{G \hbar^7 / M^6 R^6 c^{11}}$		$\hbar^3 / M^3 R^2 c^4$		$\sqrt{\hbar^5 / G M^6 R^2 c^5}$		$\hbar^2 / G M^3 c$

Notation: In the above table \hbar is used for \hbar , the Planck constant / 2π .

THE BARYON MATRIX

This matrix is derived from the TIME MATRIX, $[T] = 1$, by substituting the value of the proton mass, $m_p = -23.776602$ for M , and the value of the electron radius, $r_e = -12.550068$, for R . The table gives the values in Planck units. All entries are dimensionless quantities. To convert to time in seconds multiply entries by the Planck time, $t_0 = -43.268366$. S is the ratio of coulomb force to gravitation at the baryon level, $= 39.355880$. α is the fine structure constant $= -2.136835$. μ is the ratio of proton mass to electron mass $= 3.263909$. All quantities are given as \log_{10} values.

	-0.5	0	0.5	1	1.5	2	2.5	3
3		$(\alpha\mu/S)^{3/2}$		$(\alpha\mu)^2/S$		$(\alpha\mu)^{5/2}/S^{1/2}$		$(\alpha\mu)^3$
2.5	$\alpha\mu/S^{3/2}$		$(\alpha\mu)^{3/2}/S$		$(\alpha\mu)^2/S^{1/2}$		$(\alpha\mu)^{5/2}$	
2		$\alpha\mu/S$		$(\alpha\mu)^{3/2}/S^{1/2}$		$(\alpha\mu)^2$		$S^{1/2}(\alpha\mu)^{5/2}$
1.5	$(\alpha\mu)^{3/2}/S$		$\alpha\mu/S^{1/2}$		$(\alpha\mu)^{3/2}$		$S^{1/2}(\alpha\mu)^2$	
1		$(\alpha\mu/S)^{1/2}$		$\alpha\mu$		$S^{1/2}(\alpha\mu)^{3/2}$		$S(\alpha\mu)^2$
0.5	$1/S^{1/2}$		$(\alpha\mu)^{1/2}$		$S^{1/2}\alpha\mu$		$S(\alpha\mu)^{3/2}$	
0		1		$(S\alpha\mu)^{1/2}$		$S\alpha\mu$		$(S\alpha\mu)^{3/2}$
-0.5	$1/(\alpha\mu)^{1/2}$		$S^{1/2}$		$S(\alpha\mu)^{1/2}$		$S^{3/2}\alpha\mu$	
-1		$(S/\alpha\mu)^{1/2}$		S		$S^{3/2}(\alpha\mu)^{1/2}$		$S^2\alpha\mu$
-1/5	$S^{1/2}/\alpha\mu$		$S/(\alpha\mu)^{1/2}$		$S^{3/2}$		$S^2(\alpha\mu)^{1/2}$	
-2		$S/\alpha\mu$		$S^{3/2}/(\alpha\mu)^{1/2}$		S^2		$S^{5/2}(\alpha\mu)^{1/2}$
-2.5	$S/(\alpha\mu)^{3/2}$		$S^{3/2}/\alpha\mu$		$S^2/(\alpha\mu)^{1/2}$		$S^{5/2}$	
-3		$(S/\alpha\mu)^{3/2}$		$S^2/\alpha\mu$		$S^{5/2}/(\alpha\mu)^{1/2}$		S^3

THE BARYON MATRIX

This matrix is derived from the TIME MATRIX, $[T] = 1$, by substituting the value of the proton mass, $m_p = -23.776602$ for M , and the value of the electron radius, $r_e = -12.550068$, for R . The table gives the values in Planck units. All entries are dimensionless quantities. To convert to time in seconds multiply entries by the Planck time, $t_0 = -43.268366$. S is the ratio of coulomb force to gravitation at the baryon level, $= 39.355880$. α is the fine structure constant $= -2.136835$. μ is the ratio of proton mass to electron mass $= 3.263909$. All quantities are given as \log_{10} values.

	-3	-2.5	-2	-1.5	-1	-0.5	0	0.5
3	$1/S^3$		$(\alpha\mu)^{1/2}/S^{5/2}$		$\alpha\mu/S^2$		$(\alpha\mu/S)^{3/2}$	
2.5		$1/S^{5/2}$		$(\alpha\mu)^{1/2}/S^2$		$\alpha\mu/S^{3/2}$		$(\alpha\mu)^{3/2}/S$
2	$1/(S^5 \alpha\mu)^{1/2}$		$1/S^2$		$(\alpha\mu)^{1/2}/S^{3/2}$		$\alpha\mu/S$	
1.5		$1/(S^4 \alpha\mu)^{1/2}$		$1/S^{3/2}$		$(\alpha\mu)^{1/2}/S$		$\alpha\mu/S^{1/2}$
1	$1/(S^2 \alpha\mu)$		$1/(S^3 \alpha\mu)^{1/2}$		$1/S$		$(\alpha\mu/S)^{1/2}$	
0.5		$1/(S^{3/2} \alpha\mu)$		$1/(S^2 \alpha\mu)^{1/2}$		$1/S^{1/2}$		$(\alpha\mu)^{1/2}$
0	$1/(S \alpha\mu)^{3/2}$		$1/(S \alpha\mu)$		$1/(S \alpha\mu)^{1/2}$		1	
-0.5		$1/[S(\alpha\mu)^{3/2}]$		$1/(S^{1/2} \alpha\mu)$		$1/(\alpha\mu)^{1/2}$		$S^{1/2}$
-1	$1/[S(\alpha\mu)^2]$		$1/[S(\alpha\mu)^3]^{1/2}$		$1/\alpha\mu$		$(S/\alpha\mu)^{1/2}$	
-1.5		$1/[S^{1/2}(\alpha\mu)^2]$		$1/(\alpha\mu)^{3/2}$		$S^{1/2}/\alpha\mu$		$S/(\alpha\mu)^{1/2}$
-2	$1/[S(\alpha\mu)^5]^{1/2}$		$1/(\alpha\mu)^2$		$S^{1/2}/(\alpha\mu)^{3/2}$		$S/\alpha\mu$	
-2.5		$1/(\alpha\mu)^{5/2}$		$S^{1/2}/(\alpha\mu)^2$		$S/(\alpha\mu)^{3/2}$		$S^{3/2}/\alpha\mu$
-3	$1/(\alpha\mu)^3$		$S^{1/2}/(\alpha\mu)^{5/2}$		$S/(\alpha\mu)^2$		$(S/\alpha\mu)^{3/2}$	

**THINGS THAT ARE JOINED
IN THE JOYFUL HEART**

*Egrets after long absence returning to the lagoon
Bird and angel shaped clouds floating above the hills
The excitement of a three year old girl helping her family
move into their new home
New chicks amidst a flock of wild turkeys.
The exquisite symmetries of an autumn colored leaf.
A Kamakura Buddha restored to a Zen garden.*

*Sharing the wisdom of the trees in a sacred grove
Absorbing the sounds and symmetries of a waterfall
Feeling the silent peace of distant hills
Contemplating the reflections in the glass surface of a lagoon*

*Hearing from old friends after long separation ¹
The scripture: "You too can do all that I have done, and more".
Reading again Emma Goldman's timeless and
perspicacious challenges to the hypocrisy
of establishments. and institutions
Guatama's injunction to Ananda:
"Go beyond what I have taught.
Light a new lamp".*

¹ Echoed from Kung Fu Tzu

SOME SPACE NOTES

The original seven Astronauts:

Scott Carpenter

Gordon Cooper

John Glenn

First orbit

Gus Grissom

Wally Schirra

Apollo 7

Alan Shepard

First American in space

Apollo 14

Donald Slayton

THE ACCIDENTS

APOLLO "0" (Pre Apollo 1)

67-01-27

Virgil "Gus" Grissom

Ed White

Roger Chaffee

APOLLO 13

70-04-(11-17)

All 3 returned safely

CHALLENGER

86-01-28

Ronald McNair

Ellison Onizuka

Christa McAuliffe

Dick Scobee

Gregory Jarvis

Judith Resnick

Mike Smith

COLUMBIA

[First flight April 12, 1981]

03-02-01

Rick D. Husband

Michael P. Anderson

Kalpana Chawla

Laural B. Clark

David M. Brown

William C. McCool

Ilan Ramon

THEOLOGY: CENTURY 21

From my studies of various religions and secular belief systems,
I have come up with the following theology.
Of course, I may change it completely tomorrow.

My theology holds that Brahma created the world by designing a THEME. Brahma was interested in all the variations that could take place within the bounds of this theme. Brahma's theme, (while this seems paradoxical to us), permits variations that violate or brake any rules generated within the theme. That, indeed, is an essential element of his present theme. However, any variation that threatens to destroy or replace the theme itself is not permitted and is terminated. All else is of value and of interest to Brahma and is ordered protected.¹

The question is whether after setting his THEME, did (or could) Brahma intervene in his creation, that is, alter his theme. If what we are now beginning to understand is true, then Brahma was actually replaced by his theme. The theme took over from Brahma. So the proper question is, "Does the theme intervene in its own operations?" It must, since it protects itself. So we conclude that Brahma, the Creator, does not intervene. He only designs themes. But a theme, or creation, intervenes to protect itself or protect its goals whenever it is threatened. In the present theme of Brahma, intervention is only to enhance its end of effecting the emergence of as many variations as possible.

Naturally, we are curious as to why Brahma, who is omnipotent and already has the power to design any theme he wishes, would choose to design a theme that would maximize alternatives or variations. It seems that a theme endures only for a "Day of Brahma"², and on each Day of the "Life of Brahma" he designs a new theme. Evidently large numbers of variations are useful to Brahma in designing subsequent themes. This implies that Brahma, even though omniscient with respect to all that exists and all that is happening, still seeks to learn new design parameters and alternatives for future themes.

But then after the lifetime of this Brahma, there will be another Brahma who will doubtlessly have different ideas and approaches.³

¹Brahma delegates to Lord Shiva the protection and destruction of variations. Shiva only protects. He destroys by withdrawing his protection, and that which is not protected by Lord Shiva, self-destructs.

² A day in the life of Brahma is one Kalpa or 4.32×10^9 years. A lifetime of Brahma is 100 Brahma years, each of 360 Brahma Days = 155.52×10^{12} years. *Year of Brahma = 1.5552×10^{12} years*
Lifetime = 1.5552×10^{14} years

³In current parlance, this concept takes the form of parallel universes.

The theme of the present day seems to be "DIVERSITY MAXIMIZATION"

INTRODUCTION

The wide spread of subjects sketched in these essays is not dilettantism but the result of searching for alternatives to our present views. Richard Feynman rejected this course as being a fruitless pursuit of will-o-the-wisps. He said that we already know the important questions and their study continually leads us to other important questions. Going out into the boondocks to search for other things to ask is foolishness. But I see the will-o-the-wisps as glimpses of phenomena and dimensions that we have overlooked in our addiction to sequential exploration. The growth of human knowledge has been controlled by its past except for occasional intrusions of synchronicity and serendipity. We have too long focused on the repetitive, the regular, and probable while ignoring the unusual, the anomalous, and the improbable. It could be it is the rare and unique events that are the ultimate selectors, the "Taoist nudges", which pick the evolutionary path the world takes.

However, this collection of essays makes no claims to be cutting edge or up to date. I am not proficient enough a scholar in any field to be able to claim that something said here is ~~brand~~ new or constitutes a significant contribution. What is said here is the result of my own processing of my own experience, and only in that sense can it make any claim to originality. While my experience has been largely shaped by a standard western education and consequently reflects the current biases as to what is politically correct with respect to western cultural endeavors—social, artistic, religious, or scientific—my unfamiliarity with, not only recent, but also traditional inputs affords me a measure of freedom from the conventional approaches. Indeed, isolation and ignorance can have positive attributes. There is the possibility that unfamiliarity with current trends of thought enhances hitting on something that is categorically different. Since my primary goal has been the search for alternatives, not knowing all that is currently on the table of discourse can be an advantage.

The larger value in this set of essays is that they are not linked together according to any logical theme. These essays are like tiles with different colors that can be put together to make alternative patterns. There is no correct pattern. Some patterns will form pictures for us recognized because they are familiar. Other patterns will seem to be meaningless jumbles even though they may constitute a more profound and comprehensive representation of the universe than those we readily recognize. Our task is to see how many pictures we can construct, not evaluating them by our traditional values of right or wrong, beautiful or ugly, complex or simple, but by an underdeveloped capacity we need to exercise: extending our ability to *recognize*.

But in exploring in breadth, penetrating in depth must be sacrificed. The chef whose business is to create the menu, must taste each entry but cannot stuff on one or two favorites. Since we must choose between inclusiveness and development of detail, we are left with a feeling of uncertainty regarding significance. The more inclusive we are, the more the difficulty we have in determining priorities. We consequently seek to restrict what is on the table because of our limited information processing capacities. The pictures that grab us will be our guides as to which items on the menu we should develop in depth.

Hi Judy,

March 14, 2003

Thank you for forwarding the "thought spurs". I was not able to open the Winmail.dat, but was intrigued by Oriano Fallaci's *Rage, the Pride and the Doubt*.

This lady is clearly having a deep inner struggle, her personal experiences vs. the official views of war and its causes. She zooms in to the tragic details of war on a personal level, and out to their justification according to a set of politically correct interpretations of historical events. Her knowledge of history is extensive and precise, even though selective. We all share with her the inner struggle between our feelings and logic, between facts and their interpretation by the spin doctors.

We all get caught in the good guys = us and evil guys = them dyad, losing the point Gandhi repeatedly made: It is the behavior—not the race, nationality, religion, or gender—of the doer that is evil or good. But we think in terms of labels rather than essences.

She rightly emphasizes the danger of megalomaniacs like Saddam to his people and to others, but does not explore why a megalomaniac is dangerous or that someone who goes after a megalomaniac can be just as dangerous. To illustrate this later point, let me select a different set (from hers) of events from 20th century history.

There was a brutal dictator [Stalin] who put to death millions of his own people, who attempted wars of conquest against neighboring states [Poland and Finland] and who did all this justified by a particular belief system [Marxism]. In another country rose a leader [Hitler] who resolved to rid the world of this Marxist menace. He would establish a new world order [The Thousand Year Reich] that would establish a pax Germanica and put to route stagnated religious views [Judaism] (Of course there was also the motive of lebens Raum in his drang nach Osten.) It turned out that the world began to view this crusader against evil Marxism as worse than the evil he opposed. Nations even united with the Marxist evil to put an end to him.

The parallels are obvious. Substitute Saddam for Stalin, Iran and Kuwait for Poland and Finland, Sunnis for Marxism, Substitute Bush for Hitler (as many have done), Substitute PNAC, <http://www.newamericancentury.org/> for the 1000 year Reich, and Pax Americana for Pax Germanica. Islam replaces Judaism, (and of course, Oil replaces lebens Raum) Such parallels as this, both hers and mine, are neither right nor wrong, but their use to take us from what we really need to think about ends up as spin. And worse, it substitutes an immature type of reasoning for critical thinking.

What are we trying to do? Disarm a dictator? Set up a new colonial empire in the Middle East? What should we be trying to do? Rid the globe of all weapons of mass destruction? Do what we can to assure the survival of humankind (and all of life)? When we zoom in on specific goals we lose their connection to our real goals.

Check the PNAC url. It is scary.

Yalta

A very passionate spin doctor
She makes strange connections P.R.?

Her spin is ~ a Möbius strip

"War is the result of pacifist appeasement"

She spins the pacifists are the cause of war

[like the environmentalists where the energy problem created by manipulation]

She feels the evil of some makes their opponents good

She also gets around to blaming it all on Clinton

It is reported that Saddam reads "MEIN KAMPF"

Not necessary. Mein Kampf is already written into the psyche of those who succumb to the lure of power.

Chamberlain did not understand Hitler, Churchill did.

"It takes one to know one"

On the otherhand, Stalin was completely surprised when Hitler suddenly repudiated the Nazi-Soviet nonaggression pact.

It is a bit early to see where Bush fits into this power madness spectrum.

Groups of Followers: of BUSH

- 1) Those who love being #1, the superpower [i.e. the Master Race]
- 2) Those who live under the spell of the DIVINE RIGHT OF KINGS
- 3) Those who 'reach for their revolver' when they hear the word debate ^{loses} negotiate
- 4) plus assorted lamings with ^{an} open [e.g. Armageddon] agendas ^{on} hidden agendas [profit, oil, ...]

SOME THOUGHTS ON THE IDES OF MARCH

Ab Urba Condita, the founding of Rome, was on the 21st of April 753 B.C. Since there was no year zero, the present year 2003 is the year 2756 ab urba condita.

In the year 56 B.C., 2059 years ago, three men, Julius Caesar, Cnaeus Pompeius, and Marcus Licinius Crassius, met at Lucca to decide the future of the world. This so called First Triumvirate divided the world between them. Caesar taking Gaul, Pompey taking Spain, and Crassus taking Syria. This was the beginning of the end of the Roman Republic and the inception of what was to become the Roman Empire.

Tomorrow again three men, George Bush, Tony Blair, and Jose Aznar will meet to decide the future of the world. This modern Triumvirate, like its predecessor, is ignoring the will and laws of their republics and is thinking about an empire. Yes, history does repeat itself. And if it continues in the same archetype, we will see spreading disagreement and violence.

And this particular day marks the anniversary of the assassination of the first member of the triumvirate. Caesar's death left the power of Rome up for grabs with multitudinous demagogues, politicians, and war lords competing for control. History tells that only after decades of wars was an imperial order established. Today the world is at a similar threshold with the possibility of decades of wars before peace and order can be established.

It is often said that history is biography. Certainly history is interwoven with the biographies of men lured by power, but it also seems to be interwoven with certain archetypes. Perhaps history is less biography, and more a script that is replayed by different actors playing identical parts. The parallels in events that are centuries apart are striking. Is the inference that we are really not in charge as we like to think, but that we are pawns in some cosmic chess game between players whom we cannot identify, but only identify with? Or is the inference that we must continue to repeat the past until we have perceived its lessons and assimilated them? If this is the inference then we are in a race between ~~our~~ learning and ~~our~~ extinction.

ELITISM ?

15

Although I have met or been in the presence of many important persons, I never felt the least attraction to their supposed charisma or charm. Some radiated an aloofness and feeling of superiority that was to me offensive but perhaps to them defensive. Some were appreciative of dialogue but most seemed closed to hearing anything. Whether these characteristics facilitated the elevation to their positions of status, or were subsequently acquired, I do not know. On the other hand, there are many of the hoi polloi who become comfortable and feel defined with "knowing their place" ^{or, in} ~~when~~ and after being in the presence of these superior persons. To me this seems ~~be~~ a vestige of the "divine right of kings", but it may really be the explanation for the origin of the "divine right of kings". The need of people for someone superior preceded the need of the superior ones for power and its affectations.

While I have disdain for charisma, charm, and popularity, I have respect for skill, achievement, and character. But in our time the shift of the attributes of leadership is from skill, achievement, and character to charisma, charm, and image. Whatever the source of this shift, TV, PR, ~~or~~ SPIN, it is destroying trust in those in high places. Divine right is now being bestowed on those with minimum claims for respect and trust. And if all becomes just image, will people perceive that the emperor has no clothes?

Contrary to the sense of these remarks, I am very much an elitist. I believe that some have greater responsibility than others, as parents have more than children. It does not follow that those with more responsibilities should have more privileges, though they should have access to the means to carry out their responsibilities. The injunction, "Who would be the greatest amongst you must be the servant of all", has been repeatedly vocalized, but rarely manifested in practice.

We belong to a species that requires leaders, but have yet to develop a system that can select those proper for the tasks of leadership. The popularity criterion of a democracy is as flawed as the heredity criterion of an aristocracy or the terror criterion of a tyrant.

THE BASIC CHALLENGE

The historian, Arnold Toynbee, has compared human history to the efforts of a group of mountain climbers struggling up the face of a steep cliff. For safety in the event someone slips, all are roped together. There are lead climbers, the most experienced, who climb ahead testing the rock and searching for possible routes of ascent. It is very important that those ahead be not given too much length of rope, for if they slip they will have acquired so much downward momentum that when the rope pulls taut all will be jerked from the cliff.

My mood today reflects that our lead climbers have been allowed too much slack and have gone too far above the rest of us. It now appears they have made a miscalculation and we are watching the start of a plunge and know that when the rope goes taut we shall all be wrenched from the cliff. And we have no one to blame but ourselves for feeding out too much rope for them.

As an unprecedented kind of war is about to begin, a pall of gloom, like the mist of some bio-weapon, hangs over us. We feel a defeat that no military victory can assuage. No physical weapon has the power to correct the errors and flaws in the way we think. Today we stand face to face with the failure of our most boasted attribute, the one that separates us from all *inferior* animals, our intellect. We note that we devote most of its efforts to one topic: how to protect ourselves from each other. What other species is its own most dangerous enemy and poses the greatest threat to its own survival? What other species designs tools of mass death and views them as insurance for survival. What kind of intellects do we have? Evidently not the kind that supports our own interests. We are reminded that Einstein warned a half century ago,

*WE SHALL REQUIRE A SUBSTANTIALLY NEW MANNER OF THINKING IF
MANKIND IS TO SURVIVE.*

Perhaps hope lies in the assumption that the flaw is not in our genes but in our memes, not in our biology but in our ways of thinking. And hopefully this is something that we still have time to correct.

Is Augustine's "original sin"
manifests genetic flaws

WALLSTJR.WPD

April 9, 2003

TAKE OVER vs TAKE DOWN

Two distinct wars are being fought, neither with a chance of winning. The terrorist's Jihad, and the Imperialists "war against terrorism". Neither of these wars do significant damage to their supposed enemy. Both primarily kill and destroy the innocent non participants.

It is shaping into a war between those who want to "take over" and those who want to "take down". Imperialists vs Terrorists. Sane people cannot support either group. But the millions of lemmings on earth keep both groups viable.

Most of us have nothing to gain by supporting either side. Not all of us will likely be victims of WMD, but we all seem already to be victims of WMM,, weapons of mass manipulation. And it appears that the WMM are as hitech and dangerous as the WMD (WMM have gone way beyond Orwell's time). In fact the most effective use of WMD is as WMM, [through fear that is.]

WMM convert free men into lemmings. Those who have full information and access to all the contexts cannot be manipulated into fearful lemmings. But the psychological napalms of WMM turn citizens into lemmings that will let anything be done in their name.

The principal weapons of WMM are secrecy, distortion, distraction, repetition, fear, uncertainty, mood swings, big lies such as the inevitability of such and such making it inevitable.

There is a paradox: The Imps cannot use WMD against the Ters. But the Ters could readily use WMD against the Imps. However, only the Imps possess WMD. The Ters only hope to acquire them.

The Imps must fight a traditional chess or geometric war of position and movement, supply lines etc

The Ters fight a dice or random war, anywhere, anywhen and they cannot be deterred as can nation states.

The important difference is group and state. Weapons designed for state vs state wars are not effective against the groups that wage random war against states. Refusing to accept this fact, and wanting to continue to build state vs state military machines, the war against the terrorist groups was translated into state vs state war on the premise that some states might contain terrorist groups. This translated the war against terrorism into pseudo imperialism. [There is also evidence that other agendas entered into the picture e.g. oil, which strikes the adjective pseudo from imperialism]

A military establishment built to fight geometric war is all but useless for random war. [else why home defense] esp WMD

It is an illusion to fight random war by a geometric war taking on country after country

The Imps replace an element [a terrorist group] with a set [a country]

Imps invade an entire country of innocents to kill a few terrorists.

While terrorists terrify an entire country by killing a few innocents.

The real battlefield in the war between the "take overs" and the "take downs" is not physical. It is the endurance of people to live with terror and violence.

The bottom line is that to win is impossible for either side. First, the terrorists are not concerned with winning anything only with taking down, destroying, but the Imps in their illusion that they are in a war that can be won are only replacing existing terrorists with new recruits. Their take over war does not stop terrorism it only strengthens it.

The fallacy of security from sovereignty. Security will come only from planet wide participation.

This essay was written the night before I went to the hospital
Its title WALLSTREET.WPD, is in reference to Judy Luckwaards
proposal I write this up for the Wall Street Journal.
I wrote a draft - then went to the Hospital

SOME THOUGHTS ON THE SIXTY NINTH ANNIVERSARY

In the past few weeks I have been held down by a serious illness. Actually a heart attack. While this has been depressing and frustrating, I finally saw it as a gift. An opportunity to break out of routines. And escaping routines allows a new kind of freedom. But it seems paradoxical that with the walls of our physical box growing higher from our disabilities, that the walls of our mental and spiritual boxes come down. But sages and shamans have always known this to be so. Once the walls crumble, we begin to see and experience things that we never could while locked into the routines of our cultural box.

During this illness I experienced frequent oscillations between wake and dream states. The frequency of these oscillations put into juxtaposition images and physical symptoms. It became evident that there is a very close and mutual connection between the two. The images reflected my physical condition and I seemed to respond physically to the images. I became convinced that the essence of the one affected the other. So if I could control the kind of images in my head, then I could change my physical condition. This, of course, is not new. It has been well known for centuries, but in our materialistic culture it has fallen into disrepute. Nonetheless, to heal and have health, it is important to have good thoughts.

What, then, are healing thoughts? What kind of images are salubrious? When this question is asked, we begin to see that, except when we are focused on some activity or problem, a ceaseless chatter of random thoughts constantly runs through our heads. This mix of random thoughts includes destructive as well as salutary thoughts. How do we filter out the destructive ones?

Actually all of these questions are "box questions", formulated from an in-the-box perspective. They become meaningless outside the box. They are not the questions to ask when one is attempting to escape from the box. Rather the question-answer dialectic itself, so useful within the box, is the wrong methodology outside the box. One "outside methodology" is to forego goals and intent altogether and let better things happen than any intent we might formulate could envision. Whatever goals we set delimit the tremendous potential that exists and cuts us off from escape. However abandoning our perceptions of what is best for us is very difficult. It requires risk. It requires trust in something our in-the-box enculturation has made us skeptical of; viz, that there does exist benevolent guidance and protection for us. And if we are willing to surrender to it we are led to places that we could never have reached otherwise.

All of these personal insights from my illness are of course not new to those who have been on a spiritual path. I have glimpsed some of this earlier, but the blessing of this illness is to affirm what great teachers have taught and is but elementary knowledge to sages and saints.

BIRDS3.WPD

MAY 24, 2003

BIRDS AND OMENS

By David La Chapelle

The Birds Part I 2001 #14
" " " II " #18

In August of 1939, only few days before the outbreak of war, two hundred and fifty pigeons attacked each other in Trafalgar square in London. That same week scores of blackbirds were found dead, washed along by the waters of the Danube. At the time these unaccountable deaths were considered an omen of war. A recent spate of robin deaths across Central Texas is under investigation by the Texas Parks and Wildlife Department's Kills and Spills Team of environmental scientists. Observations of dead and dying robins were first reported near Dallas in mid-January and have tracked the bird's migration as far south as Gonzalez. The incidents range from a few dead robins observed in suburban back yards to several hundred in a five-block area in Waco. (From the Texas Parks and Wildlife web site in February of 2003)

Omens might be conveniently dismissed as the imaginings of the deranged except for the fact that Einstein is turning in his grave. We live in a non-local universe and we now have scientific proof of what we know from the wisdom of our souls. There is a way in which life unfolds as if it were aware of what is happening within and around us. Events large and small confirm the undeniable intelligence of this unfolding. As we move through our world the world reflects back our progress in the form of synchronizations, accidents and omens.

When the space shuttle Columbia broke apart, it broke apart not over India, nor Asia, or Europe, nor even the Pacific. The first pieces hit the coast of America and the bulk of the debris fell upon Texas. The state that is the home to the President that is launching a war to ensure our freedom. Omen? You decide.

What we do know now about the Columbia is that engineers envisioned the precise pattern of action that accompanied the disaster before it happened. In the end the warnings were dismissed as the worst case scenario and nothing was done. The result was disastrous. The robins' deaths and the Columbia's terrible end may only be accidents. But then again, in this highly charged time, they may not be.

The arrogance, unilateral insistence, bullying, refusal to listen to other points of view and rush to action without a compelling case for such speed is the mark of hubris. And as the Greeks, the progenitors of our western civilization, understood only too well, when hubris flies high, it must come crashing down to earth. The robins' deaths and the Columbia's terrible end may only be accidents. But then again, in this highly charged time, they may not be.

Paul Tillich, a theologian and a deeply soulful man, described this process as Kairos: An outstanding moment in the temporal process, a moment in which the eternal breaks into the temporal — shaking, transforming it, creating a crisis at the depth of human existence.

If this is a non-local universe, one interconnected and intent of evolving a self reflecting image of its own inherent unity, then the omens of the physical world become important signposts of humanities progress. Freedom appears as true alignment with the self revealing nature of consciousness. Illusion appears when man's ego projects his own agenda onto the world and hopes to control the outcome of his ambition.

These paragraphs are excerpts from David La Chapelle's article:

A NON-LOCAL UNIVERSE, FALLING BIRDS, AND THE RUSH TO WAR

APHORISMS FOR 2003

We Americans have no commission from God to police the world.

—President Benjamin Harrison, 1888

He mocks the people who proposes that the government shall protect the rich and that they in turn will care for the laboring poor.

—President Grover Cleveland, 1892

The great monopoly in this country is the money monopoly. So long as it exists, our varieties of freedom and individual energy for development are out of the question.

—President Woodrow Wilson

If there is one thing we love more than others in the United States, it is that every man should have the privilege, unmolested and uncriticized, to utter the real convictions of his mind.

—President Woodrow Wilson

There is a proper urge in all Americans for unity in troubled times. But unless unity is based on right principles and right actions it is a vain and dangerous thing. Honest difference of views and honest debate are not disunity. They are the vital process of policy making among free men.

—President Herbert Hoover

Every gun that is made, every war ship launched, every rocket fired signifies, in the final sense, a theft from those who hunger and are not fed, those who are cold and are not clothed. This world in arms is not spending money alone. It is spending the sweat of its laborers, the genius of its scientists, the hopes of its children.

—President Dwight D. Eisenhower

We cannot insist on one set of rules for us and our friends and a different set for our adversaries.

—President Dwight D. Eisenhower

If we cannot now end our differences, at least we can help make the world safe for diversity.

—President J.F. Kennedy

Standing up to your government is standing up for your country.

—Bill Moyers

Political leaders are the obstacle to Peace
— President Jimmy Carter

Let the history of government instruct mankind that the mask of patriotism may be worn to conceal the foulest designs against the liberties of the people.

—B.F. Bache, 1773

Those who measure the greatness of a society by the power of its weapons are already slaves, not the masters they hope to be.

—Anon

Maintaining political power requires keeping an enemy before us in the news media all the time.

—Dr. John Mack

Those men who build the altar of war never sacrifice themselves on it.

—John Cory

Incestuous Amplification: A condition [in warfare] where one only listens to those who are already in lockstep agreement, reinforcing set beliefs and creating a situation ripe for miscalculation.

—Jane's Defense Weekly

One of the penalties for refusing to participate in politics is that you will end up being governed by your inferiors

—Plato

Those who seek political office should automatically be disqualified

—Confucius

plagiarized by
Sir Thomas Moore

Americans^{opt} to be uninformed. It is protection from perceiving ^{their} hypocrisy.

—Anon

It is action, not results, that wins the support of the populace.

—Spin Masters' Handbook

To plunder, to slaughter, to steal, these things they misname empire; and when they make a wilderness, they call it peace.

—Tacitus

Conquerors always call themselves liberaators.

—Sami Abdul Rahman, Kurdish Administration

You fight terrorism by creating more justice in the world.

—Tommas Palladini

Transcendence is the only real alternative to extinction.

—Vaclav Havel, President of the Czech Republic

NATION OF LEMMINGS

*Honest difference of views and honest debate are not disunity.
They are the vital process of policy making among free men.*

—President Herbert Hoover

In San Francisco at a recent mass demonstration against the war in Iraq, an irate bystander on the curb fulminated against the marching demonstrators, "How can these people have no appreciation of all those who have made sacrifices for our freedom?" What is the logic here? If Americans have made sacrifices for obtaining and preserving freedom, then what is wrong with exercising that freedom? Is freedom some sacred icon to be worshiped only in speeches, put in some national holy of holies, but desecrated if exercised? Too many Americans revel in a rhetoric employing such phrases as 'freedom and justice for all', but in practice are fearful of the very concepts such phrases stand for.

We pride ourselves on being a nation of self sufficient do-it-ourselves individualists. Indeed, individualism is held to be a basic feature of Americans. Its attributes are written in and guaranteed by the Constitution. But doesn't individualism imply diversity? Yet diversity is not favored in the United States. In fact, just the opposite.. We are in reality a nation of conformists who like to think of ourselves as rugged individualists, but we fear and suppress that which is different. Our icon of individualism is one of our traditional illusions.

About 1830 Alexis de Tocqueville visited the new republic of the United States. He was amazed at the degree of conformity that prevailed as contrasted to his experience of Europe. He reported that Americans had traded the tyranny of a British monarch for a home grown tyranny of conformity. Everywhere there was intolerance of non-conformity.

In the 1950's after China entered the Korean War, it was found by the Chinese that only about five percent of American prisoners of war possessed initiative and had to be kept in high security compounds. The remaining 95% were like sheep. They were easily convinced that non-conformity should have inevitable and inescapable punishments. Conformity seemed to be second nature for them. This was in contrast to the Turkish prisoners of the international force that was fighting against China and North Korea. If the top echelon of 5% of Turkish troops was removed, a new top echelon emerged. Turkish prisoners were enterprising at every level. This seems very strange. We think of Americans as having invented enterprise, but this is true of only the top 5%, the mass of Americans are sheep, or worse, they are lemmings.

This raises an important question: How can a nation of conformists, fearful of differences and diversity, sustain a democracy? While dissent is not only a basic right and is essential to the preservation of the democratic process, a majority of Americans today hold dissent to be unpatriotic or even treason.

Americans believe that 'speaking with one voice' is the foundation of our security. Conformity assures our safety. Dissent and diversity are not only unpatriotic, they are threats to our democracy. This Orwellian inversion has taken over the thinking of most Americans, not unaided, but abetted by scientifically honed psychological spin put out by the media masters and those who control them. But a nation that eschews differences and diversity is ultimately doomed to extinction.

The 5% rule for Turks
and Muslims, Muslims
explains why terrorists
will prevail over lemmings

THE WIDTH OF NOW

SOME UNSCIENTIFIC EXPLORATIONS

In 'Causality and the Direction of Time'¹, the concept of a **now-zone** was proposed as an interval of time in which past and future were interchanged, *histeron proteron*, and consequences could be causes. It was ventured that living systems' ability to locally and temporally violate the second law of thermodynamics, reversing or suspending time's arrow, made it possible to create such now-zones. But there is further evidence that supports the possible existence of now-zones. Both theory and experiments in quantum mechanics substantiate the concept of "non-locality". Whereas it is **spatial non-locality** that has been emphasized and experimentally validated, in contemporary physics with time considered as co-dimensional with space, the idea of **temporal non-locality** is also on the table. If non-locality be proven for time as well as space, an inference would be the existence of now-zones.

But, if this be so, how are such zones to be created? It is proposed that humans have for millennia used **ritual** to create now-zones and that the nature of the ritual determines the width of the zone. For example, when the president goes before congress and speaks on the state of the union he is participating in a ritual that expands the time duration of one evening into a period of time that brings the past year and the year ahead into a now-zone. In doing this in the gathered assemblage somehow a power is created that can shape the future. Further, in those rituals of higher drama when a president goes before congress to ask for a declaration of war, the duration of the immediate event expands itself to include the entire history of the republic and its destiny for decades to come. In bringing future and past into a now-zone of whatever width human purpose can transcend the confinements of linear time.

Humans engage in a broad spectrum of rituals, from reciting a brief mantra to inauguration or coronation rituals that may last for days. In each case a now-zone is created in which the energy in the dynamic power of linear time is somehow extracted and converted into another form of energy that enables transcendence of the rule of necessity that is implicit in the second law of thermodynamics.

The power of Faith or belief has been recognized by all religions as capable of overruling the intrinsic determinism residing in the inanimate portion of the universe. It may be that the rituals of faith are the actual source of the power of faith. The creation of now-zones by rituals such as a Eucharist, Yom Kippur, a Hajj, or personal meditation and prayer results in the release and transformation of the linear time energy. As has been said, "When two or three are gathered" or "Never doubt that a small group of thoughtful, committed citizens can change the world; indeed it's the only thing that ever has."²

It appears that what we are here calling a now-zone or temporal non-locality, the ancients called **eternity**.

¹Scrap 2003 #2

²Margaret Mead

THE GOALS OF SPIN

Spin is for creating, inventing, or discovering methods to reinforce, affirm
Beliefs, Attitudes, Perceptions, World views, Persons, Icons
or to weaken, disable, terminate, or destroy them.

THE MANAGERS OF SPIN

- 1) We ourselves
 - 2) Parents, *Teachers*
 - 3) Spin Masters, managers of political spin
 - 4) Spin Doctors, managers of cultural spin [Religion, Science, Philosophy, History, ...]
-

THE TOOLS AND METHODS OF SPIN

- I. The Elements
Objects, Events, Persons, Ideas, Concepts, Symbols, Feelings, Proclivities
These may be
 - Factual or Deceptive
 - Overt or Hidden
 - Objective or Subjective
 - Conscious or Unconscious
- II. Selecting, Labeling, Connecting the Elements [dots]
In order to create or obliterate images, scenarios, opinions, feelings, options
Labels: positive or negative
Juxtaposing: create or sever links
Framing: direct focus [also distract]
Zooming: control of contexts
- III. Flow Control
Isolation, control of the number of channels
Repetition
Reversal
Timing
- IV. Menu Control
Limit options [create inevitability]
Speed [speed diminishes options]
The "laws to limits" e.g. action/option
Establish either/of dyads

SOME FORECASTS for THE 21ST CENTURY

The Barons have finally completely subdued the king. The long struggle, dating back at least to Magna Carta, 1215 A.D., has now been decided in favor of the Barons [read Corporations]. Consequently, Power, the primary concern of kings, has been replaced by Profit, the primary concern of Corporations. Future wars will not be fought for territory or for national interests¹, but for the maximization of profits. The principal weapons in the coming century will not be cannons and men, but money and spin. Tariffs and immigration control, practices supportive of kings, are giving way to free trade and open immigration, practices supportive of corporations.

What about the peasants? [read common citizens] What have they to say about all of this? Answer: What they have to say doesn't matter. **But what about the gains over the king that the people have acquired in the past 200 years?** There has been a deal by which the king has been paid off but for appearances pretends to rule. Actually the king is under orders from the barons [per lobbyists]. The people's "gains" have been abrogated. But they have the illusion that appeal to the king or a new king would restore their gains. The basic fact is that the king is no longer relevant. **But what about people when they have no voice?** They may take to the streets, to protest such things as job loss, homelessness, poverty, pollution, gross imbalances in income; and the extremists among them may become terrorists. But none of that will matter.

And how do you think this will work out? That will ultimately depend on how the corporate spin doctors can frame the issues. But at this point the likely scenario is that there will be a "global civil war", waged within various countries between the international corporate establishment and the protestors. The protestors can be easily subdued, but they may resort to destruction of capital equipment, from factories to the internet. A lose-lose situation. Another scenario, the spin doctors may be able to divert the class conflict into racial warfare, as we have seen in Africa, tribe against tribe, and in the Balkans, ethnic group against ethnic group, or possibly spin the conflict into religion against religion. On the other hand this may all end up with some strange and unlikely alliances. The issues have not been firmly framed at this time. **And what do you feel are the basic issues?** There are several, including some that are contradictory. For one, people want to retain their cultural identity for they still possess considerable xenophobia. Another is the rich/poor income ratio. Another is that of access to the earth's material and intellectual resources [medical, technological and scientific]. But I believe the most basic issue is being ignored by kings, barons, and peasants alike: That which is happening through their actions and inaction to the earth itself.

¹We have already seen this in the 1991 Gulf War, where several nations, unlikely allies, joined under an injunction issued by international corporations to protect their access to energy. Also it was an economic rather than a military victory that ended the Cold War. A "potlatch" strategy destroyed the side with the weaker economy.

revised 2001 #65

AN ENTIFICATION MANIFESTO

PART I

"Entitation is vastly more important than quantitation. Let us look at the universe in terms of some new kinds of entities, some new kinds of units; or, what really comes to the same thing, in some new way of combining units, because combining units gives a new unit at the superordinate level "

—Ralph Gerard November 1968

An ontology consists of a set of entities and their interrelations. What we **perceive** to be entities depends on our biology. What we **infer** to be entities depends on our epistemology. That is to say, the manifest portions of entities are the product of sensory experience, the unmanifest portions are the product of our way of thinking. Hence, a call to re-entify is a summons both to enhance and extend our perceptions and to modify and deepen our modes of reasoning. We select what we call reality by how we entify.

For centuries we have enhanced and extended the spectra of our perceptions with the development of optical devices such as microscopes and telescopes; auditory devices such as stethoscopes and amplifiers; and meta devices such as radar, sonar, infrared, Xray. etc. But throughout the same centuries little has been done to modify and deepen our modes of reasoning. While it is true that there have been large advances in the power of mathematics to explore the physical aspects of the unmanifest, our dyadic way of thinking has obstructed access to vast portions of reality. Hence, the Entification Manifesto in large part is a call for alternate ways of looking at the unmanifested links and relations between the manifested events and processes of sensory experience. In other words, it is also a call for a **Cognitive Manifesto**.

The century just past has injected many new concepts into our culture, concepts whose entification implications have largely been unexplored. Important among these concepts are:

Holograms:	The whole contains each part, each part contains the whole
Fractals:	Similarity or isomorphy over different scales
Non locality:	Parts in instant communication at any degree of spatial separation
Force:	Re-defined as set of particles possessing momentum and direction
Oscillation:	Particles or links that oscillate between existence and non-existence
Units:	The extension of the Planck system based on c , G , and \hbar
Life:	Generalization of "living system" to entities with life-like attributes
Cell:	The commonality of the cell nucleus pattern
Subjectivity:	Every fact has a subjective component, an observer orientation
Randomness:	Not new, but poorly understood
Generalized Links:	<i>~ Antenna Array, Arrays</i>

Any re-entification of the world cannot ignore the possible roles of these items in its structure.

Such

A MORPHOLOGY OF WAR

PARAMETER I. CONTESTANTS

- A. Balanced:
family vs family; group vs group; tribe vs tribe; city vs city; nation vs nation
- B. Unbalanced:
religion vs religion; alliances; guerillas; terrorists

PARAMETER II. PHYSICAL STRATEGIES

- | | | |
|---|---------------|-------------|
| A. {Battles} armed force vs armed force | Discontinuous | Destruction |
| B. Siege and Trench warfare | Continuous | Attrition |
| C. War of movement | Continuous | Envelopment |
| D. Random war | Discontinuous | Disruption |

PARAMETER III. PSYCHOLOGICAL STRATEGIES

- A. Shock and Awe; Fear; Propaganda and Spin; Deterrence

PARAMETER IV. WEAPONS

- A. Rocks, swords, catapults, cannons, machine guns, bombs, gas, germs, nukes
- B. Delivery Systems
personnel (suicide bombers), cavalry, tanks, aircraft, missiles,

PARAMETER V. TARGETS

Armed forces, factories and farms, cities and civilians, infrastructure, cyber space, MINDS

PARAMETER VI. GOALS

CONVENTIONAL: TAKE OVER

- A. Control of territory and key points
- B. Control of resources and population
- C. Control of the record, "Sealing"
- D. Security and Order

TERRORISTS: TAKE DOWN

- A. Destruction and disruption
- B. Kung Fu weaponry
- C. Symbolic messages
- D. Death and Paradise

PARAMETER VII. CONTESTANT RATIOS

- A. Strength and population (The bully ratios)
- B. Intelligence and technology
- C. Resources and Production

William S. Lind's Four Generations of Warfare:

- | | | |
|---------------------------------------|--|----------------------|
| I. Prior to 20 th Century: | State armies using line and column tactics | |
| II. World War I | War of attrition | body count (French) |
| III. World War II | War of speed | Blitz Krieg (German) |
| IV. Terrorists | Random War | Take Down (al Qaeda) |

The Five Fundamental Stages of Intelligence Processing

- 1) Acquisition
- 2) Delivery
- 3) Acceptance
- 4) Interpretation
- 5) Implementation

Terrorism is not a war, it is a weapon

- Sen Ernest F. Hollings Dem S.C.

Terrorism is a tactic - it is not itself ^{our} the enemy

- Robert B. Reich

- General Odom

SYMBOLIC LANGUAGES

All cultures have found the need for symbolic systems that can communicate beyond the power of verbal language. Vernaculars are limited in their ability to communicate the multiple nuances in the spectrum of human feelings, and are also limited in their capacity to convey the fullness of certain ideas. While everyday language may be adapted, primarily through poetry and certain forms of story telling, to convey many kinds of feelings, there remain feeling experiences beyond the verbal's reach to communicate. And while everyday language may develop macros to express profound ideas, there remain ideas beyond complete formulation in words [hence another need for mathematics].

In viewing the history of various cultures, there appear to be four "supplementary languages" that have been developed for the expression and communication of human feelings. These are the symbol systems we call music, architecture, ^{land & scape} garden, and ritual. In the beginning the natural order spoke to us on a feeling or spiritual level, (but now mostly on a utilitarian and scientific level), and we felt the need for dialogue, to speak back to nature. and it is from this need that supplementary languages were crafted. We sought to converse with nature on nature's terms, in nature's language, and to do this we copied what we perceived in nature. We copied and extended its melodies in music, its forms in gardens and architecture, and its dynamics in ritual. But basically we emulated what nature itself does, we created. To speak with creation we became creators.

Every symbol system begins with what is present, the manifest, and from the manifest attempts to capture what is absent, the unmanifest. That is, the system begins with things, then seeks to derive the relationships between the things. For example, a sacred grove is an entity consisting of the trees which are manifest. But the relations among and between the trees are not manifest. Nor are the relations between the trees and the earth, the trees and the sky, the trees and those who enter the grove manifest. Nor is the sacred geometry that links the sacred grove to all other sacred groves manifest. We seek to discover these relations by copying or modeling what we observe. We begin to perceive and understand the relations in the grove by first experiencing them in our gardens that model the grove. We then return to the original, go back to the grove itself, to re-experience it. First testing, then enhancing our understanding. This is the path of a symbolic language.

But there are caveats: The symbol system replaces what it symbolizes. And every symbol system truncates what it represents. We must therefore, repeatedly return to the sacred grove itself, sit in silence, watch, listen, touch and feel. And if open, we may escape from the truncations we have imposed on the grove by our symbols.

Homomorphism is impossible, and isomorphisms are incomplete.

Hi Judy,

July 21, 2003

The current global situation is more complex than most pundits or even law professors have articulated. The "surface issue" seems to be neo-colonialism vs. Islamic fundamentalism. But much of the support for western neo-colonialism comes from Christian fundamentalism while the call for a Jihad against western imperialism reflects a resurgence of a long time dormant Islamic imperialism. So the current conflict is supported on both sides by respective imperialists and respective fundamentalists. Since imperialists and fundamentalists do not seem like the usual bedfellows, the question becomes what is it that imperialists and fundamentalists have in common?

Imperialists seek geographic and economic control based on political homogenization. Fundamentalists seek ideological and axiological control based on theological homogenization. Both are bent on control and homogenization, disallowing pluralism and diversity. So it really doesn't make much difference which side "wins". Both sides share the same philosophy, but use different labels, and both push counter to the direction the rational portions of humanity have been moving in the past three centuries.

Adding to the complexity is the advent of "Fourth Generation Warfare", sometimes misnamed guerilla warfare. Generation Four warfare is best called random warfare. It goes beyond guerilla warfare. Terrorists strike at random targets at random places at random times with random weapons. Sometimes adopting the kung fu principle of using the opponent's weapons against him. The pentagon's massive firepower and rapid delivery systems are all but useless to protect against random strikes. The pentagon policy of taking out an entire nation to get a handful of terrorists that might be hiding there has three negative aspects: 1) It serves to enlarge the recruitment pool of the terrorists. 2) It is not cost effective, [3.8 billion / month for Iraq is buying what?] and 3) It doesn't work. Osama and his lieutenants are still at large, Saddam and his sons are still missing. The facts are that military establishments designed for traditional warfare are useless for the generation 4 war we are now in. [Many experts, even in conservative think tanks, have recognized this, but the administration seems totally opaque. Perhaps because it is grandstanding to its white macho male voter base.]

It must be added that the doctrine of "unilateral preemption" is the most atavistic illogical concept ever proposed by any head of state. Kant's categorical imperative states, "Propose and perform only those ideas and actions you would be universal rules" If unilateral preemption is to be the global rule, the human race will probably be extinct by the year 2200. If the administration does not intend it to be a universal rule, but reserves it exclusively for its own actions, then the doctrine of "one set of rules for me and another set for you" is proclaimed. This doctrine would place America at such risk that the time table for the extinction of the U.S.A. would be well before 2200.

The above says nothing about patriotism, and the dissent = treason equation. But I must save that for a future lecture.

yalta

THE SPECIES OF WAR

LAND WARFARE

- 1) **Slug Match:** Opposing lines and columns *soldier w soldier*
Probably the oldest form of warfare. Alexander's phalanxes, Caesar's legions
The major form of warfare up until the American Civil War
"Get there fustest with the mostest"
- 2) **Attrition:** Siege and trench warfare
Siege of cities, starvation
World War I, the trenches, outlast the enemy
Body count warfare
- 3) **Envelopment:** Maneuver and speed
Rapid movement of cavalry or tanks
By pass strong points
Mongol general: Subutai, 4 contingents
WWI Otto Hutier; WW II Rommel, Guderian, Patton
- 4) **Random:** Guerillas and terrorists
Irregulars, American Indian warfare
Partisans, franc-tireur, snipers
Suicide bombers

Labels
Freedom fighters
insurgents
terrorists

War against
Terrorists
Against
Terrorism
which is the cause? which the weapon?
A weapon
torture - a weapon

NAVAL WARFARE

- 1) **Boarding**
Ship vs ship, Lepanto, piracy
- 2) **Parallel lines**
Trafalgar, Jutland
- 3) **Manuever**
Crossing the "T", Tsushima
- 4) **Carriers**
WW II Pearl Harbor, Midway

FLEET W FLEET

Submarines
Guerillas - random
Blockaders - Siege
Missile launch pads

AIR WARFARE

Knights of the Air
PLANE W PLANE
Military Targets
Industrial Targets
Cities
Hiroshima

The search for rules
The rules oriented
The no-rules oriented

Alfred Thayer Mahan

The Influence of Sea Power on History

Yet to come AIR POWER
SPACE POWER

Submarines

- 1^o Highwayman, commerce raider
- 2^o Blockade
- 3^o Missile Launch Platform - Deterrent

FULCRUM NUMBERS

The branch of mathematics having to do with the properties of the natural numbers is called number theory. It is devoted to the relations between integers and special classes of integers, such as primes¹ or Pythagorean numbers². In this essay the properties of a special class of integers called **fulcrum numbers** will be investigated. Fulcrum numbers are those integers, B, which "balance" the sum of a sequence of integers immediately less than B with the sum of the sequence of integers immediately greater than B. For example, the number 16 is a fulcrum number since the sum of the four integers less than 16 is equal to the sum of the three integers greater than 16.

$$54 = 12 + 13 + 14 + 15 \quad [B = 16] \quad 17 + 18 + 19 = 54$$

In general, an integer is a fulcrum number, B, when,

$$1) \quad \sum_L^{B-1} n = \sum_{B+1}^R n$$

where L is the least integer in the lower series and R is the greatest integer in the upper series. Setting $L = B - J$ and $R = B + K$, equation 1) becomes

$$\sum_{B-J}^{B-1} n = \sum_{B+1}^{B+K} n$$

This equation may be rewritten

$$2) \quad \sum_1^{B-1} n - \sum_1^{B-J-1} n = \sum_1^{B+K} n - \sum_1^B n$$

Using the summation formula $\sum_{n=1}^s n = s(s+1)/2$

Equation 2) may be written as

$$3) \quad 2B(J-K) = K^2 + K + J^2 + J$$

Alternatively, substituting $P = (J-K)$, equation 3) may be written,

$$3b) \quad B - K = \frac{K^2 + K}{P} + \frac{P+1}{2}$$

¹Primes are those integers whose only factors are themselves and unity.

²Pythagorean numbers are those for which $a^2 + b^2 = c^2$, where a, b, and c are integers.

Of particular interest in number theory is the question of the distribution of special numbers, such as primes, among the set of all natural numbers. First, then, what distribution patterns are displayed by fulcrum numbers?

First, we note if the lower sequence is **one** greater than the upper sequence, $J = K + 1$ or $P = 1$, then, equation 3b) becomes

$$B - K = K^2 + K + 1 \quad \text{or} \quad B = (K + 1)^2$$

In this case B is a perfect square for all values of K. Which is to say that all integers that are perfect squares, 4, 9, 16, are fulcrum numbers.

Next, in the case the lower sequence is **two** greater than the upper sequence, $P = 2$, then equation 3b) becomes

$$B - K = \frac{K^2 + K}{2} + \frac{3}{2}$$

Whatever the value of K, the right member can never be an integer. If K is even, then $K^2 + K$ is even. If K is odd then K^2 is odd and $K^2 + K$ will be even. In either case $(K^2 + K)/2$ will be an integer. This leaves the non-integer value $3/2$. Hence there are no fulcrum numbers whenever the lower sequence is **two** greater than the upper sequence.

Writing equation 3b) for values of P from 1 to 10,

P = 1	$B = K^2 + 2K + 1$	All integers K give an integer value for B (as above)
P = 2	$2B = K^2 + 3K + 3$	No integer values for B are possible (as above)
P = 3	$3B = K^2 + 4K + 6$	
P = 4	$4B = K^2 + 5K + 10$	
P = 5	$5B = K^2 + 6K + 15$	
P = 6	$6B = K^2 + 7K + 21$	
P = 7	$7B = K^2 + 8K + 28$	
P = 8	$8B = K^2 + 9K + 36$	
P = 9	$9B = K^2 + 10K + 45$	
P = 10	$10B = K^2 + 11K + 55$	

The equations in the table show that the final term in the right member is divisible by P when P is odd, but not divisible by P when P is even. This difference, as well as the results for $P = 1$ and for $P = 2$ suggest separate consideration of the cases for which P is odd and P is even

We now rewrite 3b) in the table form with $P = P$

$$3c) \quad PB = K^2 + (P + 1)K + P(P+1)/2$$

and instead of considering fixed values of P and K, construct functions $K = K(P)$.

The case P is odd

In equation 3c), Set $K = P$, then

$$B = \frac{5P + 3}{2} \quad \text{and } B \text{ will be an integer for any value of } P \text{ that is odd.}$$

Set $K = P - 1$, then

$$B = \frac{5P - 3}{2} \quad \text{and } B \text{ will be an integer for any value of } P \text{ that is odd.}$$

$$\text{Set } K = 2P, \text{ then } B = \frac{13P + 5}{2}$$

$$\text{Set } K = 2P - 1, \text{ then } B = \frac{13P - 5}{2}$$

$$\text{Setting } K = 3P \text{ or } 3P-1 \text{ respectively gives } B = \frac{25P \pm 7}{2}$$

$$\text{Setting } K = 4P \text{ or } 4P-1 \text{ respectively gives } B = \frac{41P \pm 9}{2}$$

$$\text{Setting } K = 5P \text{ or } 5P-1 \text{ respectively gives } B = \frac{61P \pm 11}{2}$$

In general for $K = NP$ or $NP-1$

$$3d) \quad B = \frac{(2N^2 + 2N + 1)P \pm (2N + 1)}{2}$$

It is evident from equation 3d) that for P odd and any integer value of N , B will be an integer. This function $B = B(P, N)$ gives all the fulcrum numbers possible for odd P , [$P = 1, 3, 5, 7, \dots$] using any positive integer N .

The case P is even

Referring to equation 3b), the numerator $K(K+1)$ will always be even whether K is even or odd. And in the case where P also is even, it is useful to write

$$K^2 + K = 2^n \times T \text{ where } T \text{ is odd and } P = 2^d \times G \text{ where } G \text{ is odd, This gives.}$$

$$\frac{K^2 + K}{P} = \frac{2^n T}{2^d G} = \frac{T}{2^{d-n} G}$$

When $n = d$, T and G both being odd, when divisible, the quotient Q , will also be odd. Hence, the numerator in

$$\frac{2Q + P + 1}{2}$$

will be odd and there will be no integer solutions to 3b)

The case P even (continued)

Next, consider the case $n > d$. The numerator will be even and the denominator will be odd. The quotient will always be even and added to $(P + 1)/2$, as before, an odd numerator allows no integral solutions.

This restricts the possibilities for integral ^{ex}solutions to those cases where $d > n$.

If $d = n + 1$, equation 3b) takes the form

$$B - K = \frac{T}{2G} + \frac{2G + 1}{2}$$

This equation will have integer solutions whenever T is divisible by G. since the quotient Q (odd divided by odd) will always be odd. And

$$B - K = \frac{1}{2} (Q + 2G + 1)$$

The numerator is even and therefore there are integer solutions.

[However, values of $d > n + 1$ do not appear to facilitate solutions.--not proven]

Additional P even conclusions:

There can be no solutions of 3b) when $P/2 = G$ is odd.

$$B - K = \frac{K(K+1)}{2G} + \frac{2G+1}{2} = \frac{1}{2} [K(K+1)/G + 2G + 1]$$

$K(K+1)/G$ when divisible will be even, therefore the quantity in square brackets will be odd, precluding any integer values for B. Thus there are no solutions of 3b) for $P = 2, 6, 10, 14, 18, \dots$

In the special case where $L = 1$, equation 2) becomes

$$\sum_{1}^{B-1} n = \sum_{1}^{B+K} n - \sum_{1}^B n$$

Hence,

$$B(B-1) = (B+K)(B+K+1) - B(B+1)$$

or

$$B^2 = (2K+1)B + K^2 + K$$

The following quantities are the first ten integral solutions of this equation:

[$R = B + K$], [$P = B - 1 - K$]

$B_1 = 1$	$K_1 = 0$	$R_1 = 1$	$P_1 = 0$
$B_2 = 6$	$K_2 = 2$	$R_2 = 8$	$P_2 = 3$
$B_3 = 35$	$K_3 = 14$	$R_3 = 49$	$P_3 = 20$
$B_4 = 204$	$K_4 = 84$	$R_4 = 288$	$P_4 = 119$
$B_5 = 1189$	$K_5 = 492$	$R_5 = 1681$	$P_5 = 696$
$B_6 = 6930$	$K_6 = 2870$	$R_6 = 9800$	$P_6 = 4059$
$B_7 = 40391$	$K_7 = 16730$	$R_7 = 57121$	$P_7 = 23660$
$B_8 = 235416$	$K_8 = 97512$	$R_8 = 332928$	$P_8 = 137903$
$B_9 = 1372105$	$K_9 = 568344$	$R_9 = 1940449$	$P_9 = 803760$
$B_{10} = 7997214$	$K_{10} = 3312554$	$R_{10} = 11309768$	$P_{10} = 4684659$

For example, the sum of the integers less than the fulcrum number $B_3 = 35$ equals $(35 \times 34)/2 = 595$; and the sum of the integers above 35 to $35 + 14 = 49$ is $(49 \times 50)/2 - (35 \times 36)/2$, which is equal to $1225 - 630 = 595$. etc.

Ratios

As n increases without limit, the ratio $R_n/B_n \rightarrow \sqrt{2} = 1.414213562373$
 As n increases without limit, the ratio $B_n/K_n \rightarrow (1 + \sqrt{2}) = 2.414213562373$
 As n increases without limit, the ratio $R_n/K_n \rightarrow (2 + \sqrt{2}) = 3.414213562373$
 As n increases without limit, the ratio $P_n/K_n \rightarrow \sqrt{2} = 1.414213562373$
 As n increases without limit, the ratio $B_n/P_n \rightarrow (1 + \sqrt{2})\sqrt{2} = 1.707106781186$
 As n increases without limit, the ratio $B_n/B_{n-1} \rightarrow (3 + 2\sqrt{2}) = 5.828427124746$
 As n increases without limit, the ratio $R_n/R_{n-1} \rightarrow (3 + 2\sqrt{2}) = 5.828427124746$
 As n increases without limit, the ratio $K_n/K_{n-1} \rightarrow (3 + 2\sqrt{2}) = 5.828427124746$
 As n increases without limit, the ratio $P_n/P_{n-1} \rightarrow (3 + 2\sqrt{2}) = 5.828427124746$

Note that in all the above ratios, as n increases without limit, the ratios of integer quantities approach irrational values involving $\sqrt{2}$.

Iterated ratios

As n increases, we have,

From I.

$$B_n/B_{n-1} \rightarrow 3 + \sqrt{8}, \text{ hence } B_n/B_{n-1} \times B_{n-1}/B_{n-2} = B_n/B_{n-2} \rightarrow (3 + \sqrt{8})^2 = 17 + 12\sqrt{2}$$

Similarly, From II.

$$R_n/R_{n-1} \rightarrow 3 + \sqrt{8}, \text{ and } R_n/R_{n-2} \rightarrow 17 + 12\sqrt{2} = 33.970562748477$$

$$4 + 3\sqrt{2} = (3 + 2\sqrt{2})\sqrt{2} = 8.242640687119$$

$$17 + 12\sqrt{2} = 33.970562748477$$

$$24 + 17\sqrt{2} = (17 + 12\sqrt{2})\sqrt{2} = 48.041630560342$$

Note the inversions:

$$(3 + 2\sqrt{2})^{-1} = 3 - 2\sqrt{2}$$

$$(4 + 3\sqrt{2})^{-1} = (3\sqrt{2} - 4)/2$$

$$(17 + 12\sqrt{2})^{-1} = 17 - 12\sqrt{2}$$

$$(24 + 17\sqrt{2})^{-1} = (17\sqrt{2} - 24)/2$$

Factoring the above quantities B and R into their prime factors, we get:

$B_1 = 1$	1	$R_1 = 1$	1
$B_2 = 6$	2×3	$R_2 = 8$	2^3
$B_3 = 35$	5×7	$R_3 = 49$	7^2
$B_4 = 204$	$2^2 \times 3 \times 17$	$R_4 = 288$	$2^5 \times 3^2$
$B_5 = 1189$	29×41	$R_5 = 1681$	41^2
$B_6 = 6930$	$2 \times 3^2 \times 5 \times 7 \times 11$	$R_6 = 9800$	$2^3 \times 5^2 \times 7^2$
$B_7 = 40391$	$13^2 \times 239$	$R_7 = 57121$	239^2
$B_8 = 235416$	$2^3 \times 3 \times 17 \times 577$	$R_8 = 332928$	$2^7 \times 3^2 \times 17^2$
$B_9 = 1372105$	$5 \times 7 \times 197 \times 199$	$R_9 = 1940449$	$7^2 \times 199^2 = 1393^2$
$B_{10} = 7997214$	$2 \times 3 \times 19 \times 29 \times 41 \times 59$	$R_{10} = 11309768$	$2^3 \times 29^2 \times 41^2$

Note that the odd numbered R's are all perfect squares.

Factoring the quantities K and P into their prime factors we get,

$K_1 = 0$	0	$P_1 = 0$	0
$K_2 = 2$	2	$P_2 = 3$	3
$K_3 = 14$	2×7	$P_3 = 20$	$2^2 \times 5$
$K_4 = 84$	$2^2 \times 3 \times 7$	$P_4 = 119$	7×17
$K_5 = 492$	$2^2 \times 3 \times 41$	$P_5 = 696$	$2^3 \times 3 \times 29$
$K_6 = 2870$	$2 \times 5 \times 7 \times 41$	$P_6 = 4059$	$3^2 \times 11 \times 41$
$K_7 = 16730$	$2 \times 5 \times 7 \times 239$	$P_7 = 23660$	$2^2 \times 5 \times 7 \times 13^2$
$K_8 = 97512$	$2^3 \times 17 \times 717$	$P_8 = 137903$	239×577
$K_9 = 568344$	$2^3 \times 3 \times 7 \times 17 \times 199$	$P_9 = 803760$	$2^4 \times 3 \times 5 \times 17 \times 197$
$K_{10} = 3312554$	$2 \times 7 \times 29 \times 41 \times 199$	$P_{10} = 4684659$	$3 \times 7 \times 19 \times 59 \times 199$

L = 1 Recursion Formulae

- 1) $B_n = R_n - K_n$ $B_n = 6 B_{n-1} - B_{n-2}$
- 2) $2B_n = K_{n+1} - K_n$
- 3) $B_{n+1} = 7B_n + R_{n-1} - R_n$
- 4) $B_{n+3} = (B_{n+1} + B_{n+2} - 6)/B_n$
- 5) $B_{2n-1} = B_n(B_n - B_{n-2}) - 1$
- 6) $B_{2n-1} = B_n^2 - B_{n-1}^2$
- 7) $B_{2n} = B_n(B_{n+1} - B_{n-1})$
- 8) $R_{n+1} = 8B_n + R_{n-1}$
- 9) $R_{n+3} = 10(2K_{n+2} + 1) - R_n - 1$
- 10) $R_{n+3} = 10(B_{n+2} - B_{n+1}) - R_n - 1$
- 11) $R_{2n-1} = (R_n - R_{n-1})^2$
- 12) $R_{2n} = B_n(R_{n+1} - R_{n-1})$
- 13) $R_{2n} = 8 B_n^2$
- 14) $8R_{2n} = (R_{n+1} - R_{n-1})^2$
- 15) $B_{n+1} B_{n+2} - B_n B_{n+3} = B_2 = 6$
- 16) $R_{n+1} B_n - R_n B_{n+1} = R_n + B_n = K_{n+1}$
- 17) $2(1 + B_2 + B_3 + \dots + B_{n-1}) = R_n - B_n = K_n$
- 18) $B_{n+1} - B_n = 2(R_{n+1} - B_{n+1}) + 1 = 2K_{n+1} + 1$

JULY2803.WPD

July 28, 2003

SOME THOUGHTS ON MY 85TH BIRTHDAY

My struggle to get out of the box continues. I search for possible cracks through which to peer outside, a crack being a place where we suspect alternatives to exist. But we must go beyond searching for cracks to creating cracks. One approach is to **discover** new parameters by finding "second values". But more importantly, we must **uncover** our implicit and veiled prejudices that constitute the framework of the box.

One prejudice is our strong "proximity" prejudice. We tend to fabricate entities on the basis of spatial proximity. But the discovery of non-localism challenged this. The manifest portions of some basic entities may be separated by large spatial distances, but our proximity prejudice keeps us from making any connection. In the 17th century the problem of "action at a distance" challenged the proximity prejudice. Newton's response was the concept of a "field". A field being an unmanifested link between two or more separate manifested objects. The field concept has proven useful in explaining many observations, but has obscured the possibility of other types of "action at a distance" connections. [When a concept works in some cases, we seek to elevate it to a universal solution. Another of our prejudices.] Non-localism requires a different concept from an all inclusive " 4π " field. It requires a more exclusive connection, perhaps a one dimensional link, or perhaps a field with some totally different kind of topology. [like various antenna patterns]

It is reasonable to extend what has been said about **spatial** non-locality to **temporal** non-locality. This would take us beyond traditional causality to diachronic relations between manifest events that are separated by large intervals of time. It would allow not only entities in which a change in the past would affect the future, but also allow changes in the present to affect the past. If analogous to spatial non-localism non-localism in time would imply violation of the unidirectionality of time. A second kind of temporal entity involves resonance. Two or more objects may become an entity when they march to the same drummer. Flocks of birds, schools of fish, flashing fireflies, behaving as one, are all entities of resonance. A third kind of temporal entity might be an archetype. A pattern that manifests itself from time to time, even though the time interval may be large and irregular. The details of the manifestation may be different but at some level the underlying processes are related. Examples might include the earth's paleontologic extinctions and the axial changes of human history. A fourth species of temporal entity may be related to synchronicity. These would be temporal processes that are related by unmanifested connections but that become meaningful events when manifested.

All of this leads to the question of how to define 'entity'. It is useful to define two kinds of organization: First, an **entity** is an organization in which Einstein's inequality, $v \leq c$ may be violated. That is, an entity, whatever its size, is such that its parts are able to have instant intra-communication. Distinct from entity we define **system** as organization in which the parts are linked but are subject to the Einstein inequality. [An alternate approach to definitions would be to define entities by verges across which the number of links is a minimum or the connections are of a specified kind, different from the linkages in systems.]

Another way to define entity:

An object in H-SPACE Capable of morphing
element of
employing bonds other than those
indigenous to B-SPACE

Values for fulcrum numbers:

Recursion formulae: $R_{n+1} = 8B_n + R_{n-1}$

$$K_{n+1} = B_n + R_n$$

$$B_{n+1} = R_{n+1} - K_{n+1}$$

The following quantities are the first twenty integral solutions of the equation:

$$B^2 = (2K + 1)B + K(K + 1)$$

$B_1 = 1$	$K_1 = 0$	$R_1 = 1$
$B_2 = 6$	$K_2 = 2$	$R_2 = 8$
$B_3 = 35$	$K_3 = 14$	$R_3 = 49$
$B_4 = 204$	$K_4 = 84$	$R_4 = 288$
$B_5 = 1189$	$K_5 = 492$	$R_5 = 1681$
$B_6 = 6930$	$K_6 = 2870$	$R_6 = 9800$
$B_7 = 40391$	$K_7 = 16730$	$R_7 = 57121$
$B_8 = 235416$	$K_8 = 97512$	$R_8 = 332928$
$B_9 = 1372105$	$K_9 = 568344$	$R_9 = 1940449$
$B_{10} = 7997214$	$K_{10} = 3312554$	$R_{10} = 11309768$
$B_{11} = 46611179$	$K_{11} = 19306982$	$R_{11} = 65918161$
$B_{12} = 271669860$	$K_{12} = 112529340$	$R_{12} = 384199200$
$B_{13} = 1583407981$	$K_{13} = 655869060$	$R_{13} = 2239277041$
$B_{14} = 9228778026$	$K_{14} = 3822685022$	$R_{14} = 13051463048$
$B_{15} = 53789260175$	$K_{15} = 22280241074$	$R_{15} = 76069501249$
$B_{16} = 313506783024$	$K_{16} = 129858761424$	$R_{16} = 443365544448$
$B_{17} = 1827251437969$	$K_{17} = 756872327472$	$R_{17} = 2584123765441$
$B_{18} = 10650001844790$	$K_{18} = 4411375203410$	$R_{18} = 15061377048200$
$B_{19} = 62072759630771$	$K_{19} = 25711378892990$	$R_{19} = 87784138523761$
$B_{20} = 361786555939836$	$K_{20} = 149856898154532$	$R_{20} = 511643454094368$

$$3 + 2\sqrt{2} = 5.828\ 427\ 124\ 746\ 190\ 097\ 603\ 377\ 448\ 419$$

$$B_{12}/B_{11} = 5.828\ 427\ 124\ 746\ 190\ 179$$

$$B_{14}/B_{13} = 5.828\ 427\ 124\ 746\ 190\ 097\ 673$$

$$B_{16}/B_{15} = 5.828\ 427\ 124\ 746\ 190\ 097\ 603\ 438$$

$$B_{18}/B_{17} = 5.828\ 427\ 124\ 746\ 190\ 097\ 603\ 377\ 501$$

$$B_{20}/B_{19} = 5.828\ 427\ 124\ 746\ 190\ 097\ 603\ 377\ 448\ 465$$

$$R_{12}/R_{11} = 5.828\ 427\ 161\ 370\ 597\ 095$$

$$R_{16}/R_{15} = 5.828\ 427\ 124\ 777\ 927\ 042$$

$$R_{20}/R_{19} = 5.828\ 427\ 124\ 746\ 217\ 599$$

$$K_{12}/K_{11} = 5.828\ 427\ 249\ 789\ 739\ 276$$

$$K_{16}/K_{15} = 5.828\ 427\ 124\ 854\ 546\ 804$$

$$K_{20}/K_{19} = 5.828\ 427\ 124\ 746\ 283\ 994$$

Note the sequences in the last numbers

B 1, 6, 5, 4, 9, 0

K 0, 2, 4, 4, 2, 0

R 1, 8, 9, 8, 1, 0

$$B + K = R$$

EMAIL1.WPD

The following are excerpts from email exchanges I made with an out of state friend.

August 8, 2003

I decided not to run for governor. I know that this puts me in the small class of Californians who also decided not to run. But I feel I am in good company with people such as Feinstein, Issa, and the two Browns, Willy and Jerry, who are mayors of San Francisco and Oakland respectively. I felt it wouldn't be worth it when Willy Brown announced that as soon as the October 7th election is finished he plans to launch a new recall to remove whoever wins. So why try?

I hear that there will be attempts to shorten the times between recalls so that those who didn't get their papers in for the Oct 7th recall won't have to wait so long for the next one. What I don't understand is why Davis can't himself be a candidate. But I hear he would first have to resign. He can't be governor, be recalled, and be a candidate all at the same time. Our constitution clearly needs updating.

But what this is really all about is that Californians hate to be upstaged by the idiotic things going on in Texas and in D.C. itself. When it comes to absurd innovations we want to be number one.

P.S. I passed the DMV drivers license test.

August 9, 2003.

Did you take a vision test? Did you take a driving test?

August 10, 2003

Yes, I had to take a vision test. My present license has a restriction that I must drive with glasses. But since I haven't done that for years, I asked how could I remove this restriction. She said we will test you without your glasses. So I looked into their binocular device and my heart sank, everything was totally blurred. I knew I couldn't read it even with my glasses. Then I closed one eye and suddenly everything cleared. Then I easily read the smallest line, and each time she changed the setting, keeping one eye closed, I could successfully read it. I was about to boast I could read it with one eye closed, but then figured I didn't want a restriction on my license that read, "Must drive with one eye closed" so I kept mum. But when they noted my age being 85, they put a restriction on my license anyway, one that says, "Must not drive within four blocks of any farmers' market."

I didn't have to take a driving test. They couldn't find a tester willing to get in the car with an 85 year old driver.

August 11, 2003

You did fine. No farmers markets on Occidental Road, as I recall. Stay away from Santa Monica, though. The problem is not with elderly drivers but with farmers markets. When you become governor, you can abolish farmers markets and make all streets safe for everyone.

MENTAL INFRASTRUCTURES

*What is meant here by an infrastructure
is a subconscious or conscious arrangement used
for organizing and retrieving sensory and other experiences.*

In this age in which our sensory inputs are becoming increasingly those acquired by watching TV, our modes of retaining and organizing information are changing. The rapid switching of images and messages, random sequencing of unconnected events, instant leaps in place and time, and above all the obliteration of any interval of time in which to digest or evaluate, are remaking us into dys-humans. Before attempting to analyze the effects of these changes, it is well to look at some "pre-TV" basics.

Basically we store or ignore inputs on the basis of their emotional impact. We are more likely to retain and remember those experiences associated with anger, fear, pain, pleasure than those with less intense emotional associations. Our long term memories seem to be feeling centered, although they are also sometimes linked to *multi-sensory* events. For example, an aroma, not ordinarily encountered, may bring to mind an event that was long forgotten but was still stored in memory. ["Memory resides in the molecules"]

Our next most common infrastructure is familiarity. We shovel familiar, regularly repeated events into a bin of reduced importance labeled *forget*. And we have another mental bin for the highly unusual, whether of importance or not, labeled *remember*. The remembering of the highly unusual derives from our fear of what is different. This familiar/unusual infrastructure has over time augmented the original emotion infrastructure.

Over millennia, on becoming more mature, we replaced individual infrastructures with a consensus collective infrastructure called *the rational*. Logic and reason, began to displace emotion as the accepted measure for what was important to retain or important to dismiss. At the root of the rational, of all logic, is the concept of *consistency*. The development of a rational infrastructure centered on consistency began to overrule the importance of much of what had been stored in human records that had come from the unfamiliar. But what proved of value, contrary to the tendency in the familiar/unusual infrastructure, was to record the familiar. This, because records of the familiar enhanced predictability. Today the collective rational, especially as exemplified by science, controls the infrastructure of what is important to be recorded or dismissed. And there is little room in that infrastructure for either the emotional or the unusual.

Summarizing, in order of sophistication, our mental infrastructures for the importance of what to retain and what to dismiss have been:

- 1) Emotions: fear, anger, pain, pleasure
- 2) Familiarity: repetition, regularity, and rarity
- 3) Reason: consistency, logic, skepticism
- 4) And now, with TV, what is the new infrastructure?

TV's practice of random mixing the actual with the staged has eroded our ability to discriminate the real world from fabricated alternatives. Many believe the moon landings were staged while others believe any falsehood the spin meisters spew. It works both ways. When what is experienced, that is perceived on TV, is a mix of news and hype, people are no longer sure of what is real. The reaction is a pathological brew of skepticism and belief, leading to loss of confidence and trust in everything. The net effect of TV has been the destruction of the diachronic, the "flattening" of the world into the purely synchronic. Traditional nouns and verbs are no longer isomorphic with things and actions. Language has begun to "float" as Wittgenstein predicted. And this further empowers the spin doctors.

The role of belief in all 4 =?

The role of the Weber-Fechner Law?

Enhancement of the power of spin

Unacceptable changes in the real world allowed, because they are confused with a show.

APHORISMS FROM JIM HIGHTOWER'S BOOK THIEVES IN HIGH PLACES

DON'T AGONIZE, ORGANIZE

The corporation **cannot** be ethical, its only responsibility is to make a profit.

-Milton Friedman

The prosperity of the middle class depends on the good fortune and light taxes of the rich.

-Andrew Mellon

The surface of American Society is covered with a layer of democratic paint, but from time to time , one can see the old aristocratic colors breaking through.

-Alexis De Toqueville [Democracy in America]

I don't know much about Americanism, but it's a damn good word with which to carry an election.

-Warren G. Harding

America's destiny is not power, but light.

-Benjamin Franklin

Why of course the people don't want war. Why should some poor slob on a farm want to risk his life in a war when the best he can get out of it is to come back to his farm in one piece? Naturally, the common people don't want war: neither in Russia, nor in England, nor for that matter in Germany. That is understood. But after all it is the leaders of the country who determine the policy, and it is always a simple matter to drag the people along, whether it is a democracy, or a fascist dictatorship, or a parliament, or a communist dictatorship..... Voice or no voice, the people can always be brought to the bidding of the leaders. That is easy. All you have to do is tell them they are being attacked, denounce the pacifists for lack of patriotism and exposing the country to danger.

-Hermann Göring , Interview April 18, 1946
From Nuremberg Diary by Gustave Gilbert

This world in arms is not spending money alone. It is spending the sweat of its laborers, the genius of its scientists, the hopes of its children.... This is not a way of life at all in any true sense. Under the cloud of war, it is humanity hanging on a cross of iron.

-Dwight D. Eisenhower 1953

I believe there is something out there watching over us. Unfortunately, it's the government.

-Woody Allen

If there is no struggle, there is no progress. Those who profess to favor freedom, and yet deprecate agitation, are men who want crops without plowing up the ground. They want rain without thunder and lightning. Power concedes nothing without a demand. It never did and it never will. Men may not get all they pay for in this world, but they must certainly pay for all they get.

—Frederick Douglass

A child born to a black mother in a state like Mississippi....has the same rights as a white baby born to the wealthiest person in the United States. It's not true, but I challenge anyone to say it is not a goal worth working for.

—Thurgood Marshall

We seem to be at a point now where the word 'sprawl' has been totally demonized.

—Clayton Traylor, National Association of Homebuilders

We paid \$3 billion for these television stations. We decide what the news is. The news is what we tell you it is.

—David Boylan, Fox affiliate WTVT, Tampa, Fla

Destiny is not a matter of chance, it is a matter of choice; it is not a thing to be waited for, it is a thing to be achieved.

—William Jennings Bryan

Each game is unique and this one is not different.

—John Slightholme, BBC

Yogi Berra has rivals

We are going to turn this thing around 360°

—Jason Kidd, basketballer

We have only one person to blame, and that's each other.

—Barry Beck, NHL

There are some teams who will try to circumcise the rules.

—Bill Cowher, Pittsburgh Steelers

The early bird might get the worm, but remember, it's the second mouse that gets the cheese.

—Willie Nelson

THE OPPOSITE OF COURAGE IS NOT COWARDICE, IT'S CONFORMITY.

“PATRIOT DAY”

There was great perspicuity among those who planned and carried out the attack on America on this date two years ago. They perceived a flaw in our culture that if catalyzed would possibly lead this nation to take up a path leading to self-destruction. On this anniversary, it appears they were right. Without another bomb or shot on American soil, the catalyzing power of their attack evoked the type of response that is destroying America more effectively than any number of similar terrorist attacks ever could.

There were two opposite responses to their attack.

On this day two years ago when people witnessed this great tragedy, they took courageous risks, and made exceptional sacrifices, and we saw the best that is America and the best that is in its people. And on this day two years ago, much of the world joined in sympathy and unity with America in this tragedy. “Nous sont tout Americains” said Europe. There was global recognition of a global problem and many nations saw the need for global unity in solving the problem of terrorism.

But a day latter there was another response to the attack. There were those who saw a political opportunity in the event. They saw that viewing terrorism in terms of war, instead of as a consequence of a societal disease, they could with fear and lies trap free people into behaving like lemmings. And those same shameless ones who pounced on opportunism to secure power and wealth from human tragedy had within a few months destroyed the global unity and support that America enjoyed by arrogantly proclaiming their right to preemptively and unilaterally use ~~their~~ military forces wherever and whenever they chose. And now for some misdirected political reasons this day of tragedy and remembrance is being called, “Patriot Day”.

Today we must ask: What has damaged American more, Al Qaeda’s attack or the administration’s response to that attack? In terms of loss of constitutional rights, loss of jobs, loss of lives of troops, and the loss of the trust and respect of the rest of the world, it appears the Bush people have taken upon themselves the cause of the terrorists: the destruction of America. Certainly their response has been far more devastating to America than the attack.

Benjamin Franklin said, “America’s destiny is not power, but light.” 1782

President Benjamin Harrison said “We have no commission from God to police the world” 1888

President Dwight Eisenhower said “We cannot insist on one set of rules for us and our friends and a different set for our adversaries” 1955

President John Kennedy said “If we cannot now end our differences, at least we can help make the world safe for diversity” 1962

These statements and others by former presidents and patriots speak to what America has been about. And in following the course that we have followed for 225 years, we were correcting flaws and approaching the light that Franklin foresaw. But unless 9/11 becomes the anniversary of our awakening, the terrorists of 9/11 may have lit the fuse to a bomb of our self-destruction

KRONOS and KAIROS¹

The year is a great cycle, with the patterns of movement of the sun repeated over and over, giving us the seasons, times of light and darkness, times of heat and cold, and times filled with more subtle effects. Primitive and pagan peoples celebrated the year for its visible and invisible happenings, the extremes of the solstices, the balance of the equinoxes, and the numinous times of the presence of the spirit of the earth.

January 4th On or about this date the earth moves closest to the sun, the point in its orbit called perihelion. Also on this date the motion of the sun in the sky changes from being dominantly eastward to northward. It is the annual tropos when the sun truly begins its northward journey. And at the latitude of Alexandria and roughly throughout the world's temperate zone, this is the date of latest sunrise, the day of the darkest morning. It is not surprising then that in many cultures, peoples sensed a day of basic cosmic significance and supplied historical or mythic reasons to celebrate it. The point in all of this is that most of our special days are indeed special, but what we project or attach to them and what we tell ourselves is the reason for our celebration can be quite unrelated and arbitrary. What here emerges is an awareness of two different ways of looking at time. One, time as linear, historical, and ongoing—Chronos; the other, time as cyclical, recurring, and renewing—Kairos.

The ancient Hebrews were credited with departing from the level of celebration of the raw cyclical year to a level of substituting for the sun-earth-moon events a set of historical happenings—Passover, Purim, Rosh a shanah, ... Christians followed this practice, Easter, Christmas, Epiphany, ... using a different set of historical or mythic events. And this practice prevails today in the West. Our national festivals mark anniversaries, birthdays or historical events. But in this mode of celebration we have lost touch with the underlying cosmic cycles, with the real basis for Kairos—the proper time to celebrate the different aspects of life— and that may have little to do with history. In celebrating Christmas, for example, as an historic event, we obscure its greater power as a cyclic event, something that happened not once but happens every year in the depths of December and has a reality more profound than either the historic or the mythic.

In our embrace of Chronos, we have lost Kairos. We have substituted remembrance for recognition, and as a consequence have substituted mortality for eternity.

¹This file is a rewrite of an earlier file.

COSMIC CURIOSITIES

- 1) Archimedes' Sand Reckoner 10^{62} grains of sand vs. Eddington's 10^{78} atoms
1 grain of sand > 10^{16} atoms?
- 2) Cylinder-Sphere-Cone Vs Power-Energy-Force
 (Alternate symbols for dimensionality)
- 3) Cylinder-Sphere-Cone
 $V = \frac{3}{2} \quad 1 \quad \frac{1}{2}$
 $(\alpha\mu S)^{3/2} \quad (\alpha\mu S) \quad (\alpha\mu S)^{1/2}$
 univ star atom
SPIN $\frac{1}{2}, 1, \frac{3}{2}$
- 4) Invariant volume of two cones Invariant vs Constant
- 5) Time:
 Period since the Big Bang measured in Kalpas
 The week, the Schuster period and the rotation period
 Kairos and Kronos, Mayan Haab and Tun (long count), Cyclical and Linear
 Logic: Past conjunctive-Present disjunctive-Future neither conjunctive nor disjunctive
 Past=fixed zone, Present=choice zone, Future=chance zone
 Necessity Options Random Sunyata
 The width of "NOW"
- 6) Conflict-Compromise-Synthesis
- 7) Continuity-Contiguity-Consistency
- 8) Repetition-Recursion-Regression [Iteration]
- 9) Confusion-Conviction-Corruption
- 10) Symbol-Metaphor-Archetype [Representation]
 Nodes-Links, Patterns-Pictures, Processes-Games
- 11) Mathematical Musings:
 The Great Pyramid $\Phi, \pi, dV/dS = 0$
 Fulcrum Numbers
- 12) Problem levels: Cosmic, Models, Representation, Tools
 Nature, Weltanschauung, Language, Software

LIFESAC.WPD

November 7, 2003

THE SACREDNESS OF LIFE

Today I received this email from a friend of mine. She sent this message to dozens of her friends and acquaintances giving her reaction to the bill just approved by congress regarding late term abortions.

To the women and men who care.

Can't help my sense of indignation on this one.

<http://www.whitehouse.gov/news/releases/2003/11/20031105-1.html>

Where are the WOMEN!

Look at the picture. Read the script. WHERE ARE THE WOMEN!? How can these men who haven't carried a child, cared for a child or faced for one moment the realities of childbearing and childrearing sign bills based on their political agenda? Bills that dictate decisions about women's bodies. (NOT their bodies) This is not democracy, not love, not part of our constitution nor God's plan. The rhetoric they use to excuse their regressive and oppressive views makes my blood boil. Our bodies, along with the emotional and moral decisions that we make regarding them, childbearing or not, do not belong to politicians. Women are not objects that are incapable of making wise or difficult decisions. The rights of women worldwide must continue to advance, not regress. Please express yourself by contacting your representatives, joining Planned Parenthood <http://www.plannedparenthood.org/>, or Women's rights groups <http://www.now.org/>

Thanks and love

E

It is interesting that within hours of the passage of this bill three judges in different states banned its enforcement, declaring it to be unconstitutional. This bill will be headed to the Supreme Court.

But what bothers me is the deep hypocrisy of a government with great concern for the protection of a foetus or for keeping those who are dying continually plugged in to a high tech support system, while at the same time it passes a bill funding new atomic weapons and canceling agreements not to test them. It seems that life before birth and life after terminal illness is sacred, but for the interval between birth and the diagnosis of an incurable coma, life is cheap and to be expended on any political, economic, or research agenda that the political establishment decrees. If people suffer from hunger, disease, want, so be it.

This does not add up to the sanctity or sacredness of life, but to preserving centralized power and control over all aspects of peoples lives through manipulation of finances, flow of information, development of super weapons, and passing intrusive legislation, while rationing access to education, health care, and community resources. These politicians and their corporate colleagues, as many current books are pointing out, are corrupt self-serving liars and hypocrites, who lecture democracy and freedom but are intent on reducing the citizenry to lemmings.

With a grateful heart, say
THANK YOU
 a hundred times a day

Merci beaucoup	French
Thank you	English
Danke Schön	German
Dank u wel	Dutch
Tak soh mewkeh	Swedish
Grazie mille	Italian
Muchas gracias	Spanish
Muito obrigado	Portuguese
Arigato gosaimasu	Japanese
Shie shie	Chinese
Spasebo	Russian
Dyekui	Czech
Kusunum	Hungarian
Evharisto	Greek
Bayarlalaa	Mongolian
Ahehee	Navajo
Ahsahnteh	Swahali
Terima kasih	Indonesian
Shookreeyah	Hindi
Shookran	Arabic
Todahrahbah	Hebrew

THANX.WPP

HAI POON

THAI

Dziekuje

Polish (gimbooya)

MOVIEDAY.WPD

November 14, 2003

A DAY AT THE MOVIES

At large intervals, sometimes decades, the makers of films come up with productions that deserve the appellation, "classic". These are not the films suffused with innovations such as special effects, but films that tie together human characters with timeless archetypes. (But that is what anything labeled *classic* has always been about.) This time it is two movies being released in the same week. We have:

LUTHER

Director: Eric Till

Lead Actor: Joseph Fiennes

and

MASTER AND COMMANDER

Director: Peter Weir

Lead Actors: Russell Crowe and Paul Bettany

Both of these films connect historical dramatic details to timeless philosophical concepts.

Excerpts from a review of LUTHER:

This fact-filled historical epic depicts the events that gave birth to Protestantism as a life-and-death political struggle between a corrupt, repressive, intransigently conservative establishment (the Roman Catholic Church) and a liberal populist movement that spins out of control and wreaks havoc. With religious fundamentalists of every stripe ferociously resisting diversity and change, variations of the same primal struggle are still being acted out all over the world. The movie's essential conflict infers that it is a never-ending ideological rift programmed into the human species.

Excerpts from reviews of MASTER AND COMMANDER:

In the authoritarian world of the ship, the two men, the Commander and the Doctor talk to us about the contest between man's need to dominate and his desire to reflect. Maturin, the ship's doctor, is "the shape of modern man, a curious man of reason". Aubrey, the commander, is a wise warrior driven by absolutes, a man of his time", a type headed for history's dustbin.

In juxtaposing these two struggles: populist reform vs rigid absolutism and drive to control vs aspiration to discover, we make visible some of humanities inherent choices, some that may be a prescription to self-extinction.

THE 3-U PARADOX

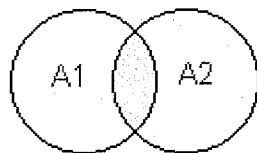


Figure 1

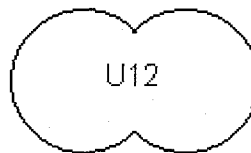


Figure 2

The union U_{12} of the two areas A_1 and A_2 is the sum of the two areas minus their intersect (shaded area), I_{12} . [Figure 1 and Figure 2]

$$1) \quad U_{12} = A_1 + A_2 - I_{12}$$

The union of three areas A_1, A_2, A_3 may be found by adding the area A_3 to the union U_{12} and subtracting their intersect S , (the shaded area) [Figure 3]

$$2) \quad U_{123} = U_{12} + A_3 - S$$

But S is composed of two areas I_{13} and I_{23} , like I_{12} , with an intersect of w [Figure 4], therefore,

$$3) \quad S = I_{13} + I_{23} - w$$

$$\text{Combining 1), 2), and 3)} \quad 4) \quad U_{123} = A_1 + A_2 + A_3 - (I_{12} + I_{13} + I_{23}) + w$$

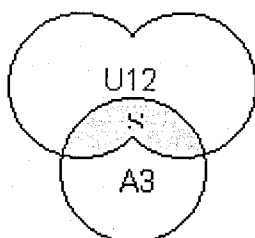


Figure 3

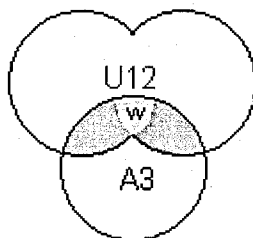


Figure 4

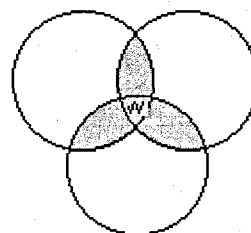


Figure 5

Alternatively, considering Figure 5, the union U_{123} is equal to $A_1 + A_2 + A_3$ minus the shaded area. This shaded area is $I_{13} + I_{23} - w$, as in Figure 4, plus $I_{12} - w$. Combining, we get

$$5) \quad U_{123} = A_1 + A_2 + A_3 - (I_{12} + I_{13} + I_{23}) + 2w$$

Which is correct Equation 4) or Equation 5) ?

CHARACTERISTICS OF THE PRESENT AMERICAN CULTURE

HIGHLY COMPETITIVE [IRRECONCILABLE SIMILARITIES]

HIGHLY CONFORMING [DIVERSITY IS CONFUSING AND UNPATRIOTIC]

INSTITUTIONALLY RELIGIOUS [MATERIALISTIC, SECULAR, NOT SPIRITUAL]

CAPITALISTIC AND MONOPOLISTIC [WINNER TAKE ALL]

CONTROLLING [BE NUMBER ONE]

HYPOCRITICAL [SELF--DELUDED, ABOUND IN RHETORICAL ILLUSIONS]*

ARROGANT [HAVE THE RIGHT ANSWERS AND SOLUTIONS, "GO IT ALONE"]

VERTICALLY SPLIT [REWARD AND ACCESS SEPARATION BY CLASS]

SUCCESS MEASURED BY WEALTH, CELEBRITY, POWER [THE REAL PANTHEON]

DYADIC US||THEM THINKING [LIMITED REASONING POWER]

LEMMING LIKE [FEEL SECURE WITH LARGE NUMBERS IN AGREEMENT]

GOOD ROWERS, [TOWARD TRADITIONAL AND CONVENTIONAL GOALS]

POOR STEERSMEN [MOST NEW GOALS ARE IMPORTATIONS]

ME ORIENTED [CRITICAL IDENTITY PROBLEMS]

NOW ORIENTED [SHORT TERM BOTTOM LINE, NO RESPONSIBILITY TO FUTURE]

NOVELTY ORIENTED [THE CURRENT ^{FAD} ~~SUBSTITUTION~~ FOR GENUINE INNOVATION]

HEDONISTIC [DEMAND INSTANT GRATIFICATION]

WASTEFUL [OBLIVIOUS TO CONTEXTS AND CONSEQUENCES]

UNCORRECTABLE [AVERSE TO GENUINE ALTERNATIVES]

* EXAMPLES: FREEDOM, EQUALITY, INDIVIDUALISM, OPPORTUNITY

APHORISMS OF THE PHILOSOPHER KINGS

Plato once said that the ideal government would be headed by kings who were also philosophers. Now that we have actually encountered kings who philosophize, I wonder if Plato would change his mind.

First, philosopher king, Herman Goering:

Why of course the people don't want war. Why should some poor slob on a farm want to risk his life in a war when the best he can get out of it is to come back to his farm in one piece? Naturally, the common people don't want war: neither in Russia, nor in England, nor for that matter in Germany. That is understood. But after all it is the leaders of the country who determine the policy, and it is always a simple matter to drag the people along, whether it is a democracy, or a fascist dictatorship, or a parliament, or a communist dictatorship..... Voice or no voice, the people can always be brought to the bidding of the leaders. That is easy. All you have to do is tell them they are being attacked, denounce the pacifists for lack of patriotism and exposing the country to danger.

—Hermann Göring, Interview April 18, 1946
From Nuremberg Diary by Gustave Gilbert

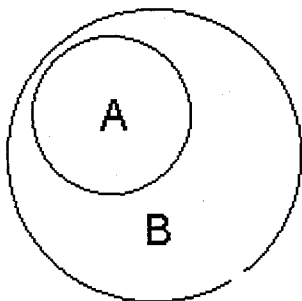
Second, philosopher king, Donald Rumsfeld:

Reports that say that something hasn't happened are always interesting to me, because as we know, there are known knowns; there are things we know we know. We also know there are known unknowns; that is to say, we know there are some things we do not know. But there are also unknown unknowns—the ones we don't know we don't know.

—Don Rumsfeld (Feb 2002)

{[But, Don, why do you leave out unknown knowns, things that we know that we don't know we know? These could be the most interesting of all.]} *these could have prevented 9/11
we didn't know we had the intelligence*

An absence of evidence is not evidence of absence. —Donald Rumsfeld



Rumsfeld's logic is correct. In the Venn diagram, If A, then B. That is if a point is inside circle A it must also be inside of circle B. But a negation changes the situation. Which is to say, if not A, then not B does not necessarily follow. That is if a point is outside circle A, it is not necessarily outside circle B. Only when circle A and circle B coincide will not A infer not B.

Third, philosopher king, Bill Clinton:

That depends on what the meaning of "is" is.

—Bill Clinton