

Mimetic Morphs: Court, Castellations, and Cosmos

Learn from yesterday, live for today, hope for tomorrow (Einstein)

Ian Harnett

1 The Target

Breaking the functionality of the tyranny of dead ideas requires reform without backward compatibility. Entrenched as legacy problems in the Modern Legislative State, the offices of ‘Bailiff, Bar, Bench, Court, Judges, law faculties, Prosecutor, and Registry constitute a bundle of offices surviving from the Papal Reforms of 1073 and the 1215 Lateran Council.

This paper, third in the mimetic morph series, returns to the Aristotelian-Ptolemaic worldview embedded within Western law management, methodology, and monopoly with the specific focus being castellations, cosmos, and the sublimation of physical weapons by word weaponry or word wizardry, i.e., legal method, before, once again examining the biological and chemical underpinnings. Rejecting the traditional discourse of Reason, its genre, and its tropes, we proceed by assembling binary pairs within the geometry of the hypercube.

2 Clearing The Decks

In “Pearls are a Nuisance”, Raymond Chandler (1888-1959) commences with a discussion of the hardboiled story, where the streets were darker with something more than night, where justice and truth do not out, and the law is manipulated for power and profit, then, in “The Simple Art of Murder”, he tackles the Golden Age of detective fiction with its arid formula of deduction, grey cells, logic, and Reason, a world where the writers know nothing about the reality of the Court Society, lawyers, or police.

Confronting the make believe world and the stereotypic picture of law management induced by the Golden Age of detective fiction, our hardboiled approach to the Court Society commences within the traditional Saussurean schema but takes up a path ignored by the mainstream of twentieth

century linguistics. Linguists of the twentieth century owe a great debt to Charles Bally, Albert Sechehaye, and Albert Riedlinger for their assemblage of ‘Course in General Linguistics’. However, we follow the notebooks of Emile Constantin edited and translated by Eisuke Komatsu and Roy Harris (1993) which preserves the kinematic option recommended by Saussure during his first semester (28 October 1910 - 16 December 1910). In taking up this ignored for-so-long option, we also follow in the footsteps of Dwight Whitney (1827-1894), who suggested that a linguistic focus on institutions might be of some benefit. This institutional focus has been followed by James M. Buchanan, Nobel Memorial Prize in Economic Sciences (1986), who observed that institutions tend to operate far more for the benefit of their members than for the society they are constitutionally mandated to serve. Finally, we follow in the footsteps of Rene Girard but we ignore completely the clouded confusions introduced by his Catholicism.

Mimetic Morphs: Court and Church (Harnett 2011a) took up the challenge of investigating the end of days for the Western legal system (Berman 1983: 39; Girard 2010: 108). There we detailed the meiotic separation of the secular Court from the Canon Court during the eleventh to fifteenth centuries. This paper, we believe, perhaps erroneously, constitutes the first time that an institution has been documented as cloning a copy of itself through mimetic biological processes. Then, in Mimetic Morphs: Court, Chimpanzee, and Crow (Harnett 2012a), we traced the contours of a deeper mimetic mountain extending back into pre-human realm (Pan troglodytes; Corvus corax). There we focused on what in biology is called a “predator-prey relationship”. This paper, we believe, perhaps erroneously, constitutes the first time that an institution has been documented as replicating intra-species behavior, a behavior Wrangham and Peterson (1996; 165) termed the ‘Party Gang Species’. Harnett (2011a; 2012a) both employed hypercube geometry, graph theory, and Hall’s Marriage Theorem (Bollobas 1998).

This type of kinetic modeling builds upon ‘A Topological Twist in Linguistic Representation’ (Harnett 1997); A Tale of Two Genres (Harnett: 1998-2003); Nonlinear Linguistics: The Dimensions of Emergence (Harnett 2004); Einstein, Saussure, And Stationary Systems (Harnett 2005); Hertz, Saussure, And Stationary Systems (Harnett 2006); Dedekind, Saussure, And Stationary Systems (Harnett 2007); Grassmann, Saussure, And Stationary Systems (Harnett 2010); and Poincare, Saussure, And Stationary Systems (Harnett 2011a).

Saussure discussed dynamic modeling intensively during his first semester of the fall of 1910, especially 15, 18, 22, and 29 November, where he introduced time tabulation, layering, isoglossematic bands (attractors), linguistic waves, and time projection within a hypercube. These notions are completely missing from the 1916 ‘Course in General Linguistics’ edited by Charles Bally and Albert Sechehaye from the notebooks of Albert Riedlinger and others but not of Emile Constantin.

It is hoped that this series on deconstructing the tyranny of dead ideas will only be a temporary

interruption to our original goal of evolving Wellentheorie (Wave Theory) as outlined by Saussure during his final year of teaching General Linguistics.

3 The Need for New Methodology

The Age of Reason is dead. Reason is to computation as alchemy is to science and the horse is to the space probe. The Austrians Wittgenstein (1889-1951) and Kurt Godel (1906-1978) with his 1930 paper “On Formally Undecidable Propositions of Principia Mathematica and Related Systems” brought to an end Logical Positivism, Hilbert’s Formalism, Whitehead and Russell’s Principia Mathematica, Frege’s formalization of arithmetic, The Berlin programme of arithmetization, and the Age of Reason. See From Frege to Godel (van Heijenoort 1967); The Advent of the Algorithm (Berlinski 2000); The Search for Mathematical Roots, 1870-1940 (Grattan-Guinness 2000); Knowledge Representation: Logical, Philosophical, and Computational Foundations (Sowa 2000); and Conflicts between Generalization, Rigor, and Intuition (Schubring (2005).

In brief, at its best, Reason is an internal linear process that alleges to find order by exclusion but, at its worst, Reason, the *raison d’être* of the legal profession, is word wizardry (Plato in the Phaedrus, 266, 267). Obsolete, and superseded by experiment, measurement, observation, Protestant public space (External), and verification, the place for Reason is in the trashcan of history. For Reason, the backbone of the Scholastic Age, is a bogus, deceptive, empty, fraudulent, and mistaken genre.

As an example of a new genre, Mimetic Morphs: Court, Chimpanzee, and Crow (Harnett 2012a) introduced the Saussurean hypercube from the 29 November 2010 lecture entitled ‘Linguistic Waves considered as social contagion or with reference to their geographic propagation’. Now we evolve Saussure’s hypercube instrumentation first by blending or merging his notions into one schema, i.e., nothing new is introduced to the Saussurean hypercube. It is, simply, updated, within the context of the 1910 lectures.

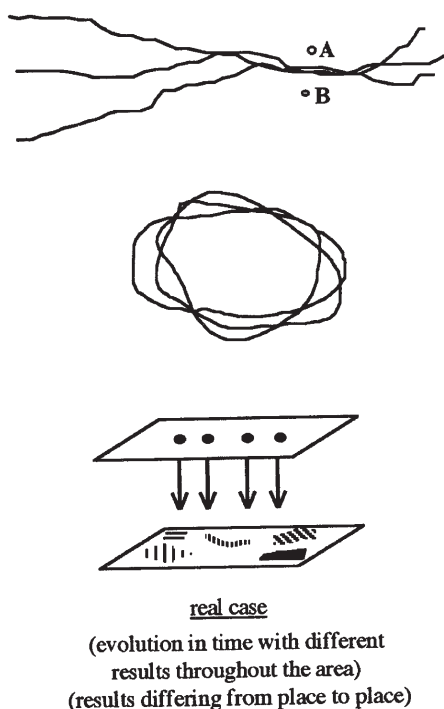


Figure 1 — Three Saussurean Diagrams from the Constantin Notebooks
 (Komatsu and Harris 1993: 27a, 28a, 23a)

These three Saussurean Diagrams from the Constantin Notebooks can be recognized to demonstrate the operations of an attractor operating against the bifurcations of a Cantor Dust. Thus, we can simply formalize the Saussurean hypercube by placing a Cantor Dust within the inner cube to demonstrate fission and by placing an attractor in the outer cube to demonstrate fusion or cohesion. By this containment, we can demonstrate a skein of cohesion organizing against the breakdown of the Cantor Dust within one schema.

Such a schema has powerful implications for it demonstrates a Brownian storm taking place infinitely in a confined space. The Brownian storm hypercube (Saussurean hypercube), thus, eliminates the explanation of a corrupted world, collective guilt, a capricious God, destiny, divine punishment and retribution, fate, luck, original sin, and the need for human sacrifice, or any other type of living object sacrifice, for intermittency is normative static.

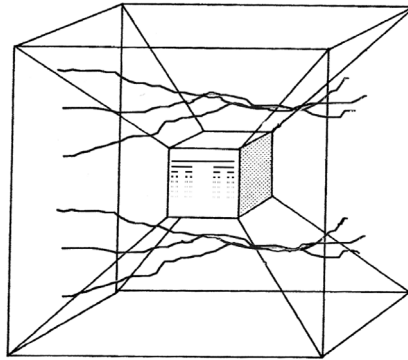


Figure 2 — Brownian Storm Hypercube Coupled with Cohesion Attractor

To be exact, the Brownian Storm Hypercube Coupled with Cohesion Attractor can be described as a Cantor Dust at Dimension 0.6309 folded into a Koch Snowflake at Dimension 1.2618 folded into a Sierpinski Carpet at Dimension 1.8928 or an equivalent Sierpinski Carpet Cube (Menger Sponge) at Dimension 2.7268 (Mandelbrot 1983: 80, 42-43, 144, 145).

This lacunarity model of a Brownian Storm Hypercube Coupled with Cohesion Attractor replaces traditional anthropomorphic explanations and anthropomorphic behaviors with a more impartial and realistic context for the human situation that Langston (1992) has described as ‘Life at the Edge of Chaos’.

4.1 The Winter Semester 1910-1911

The historical perspective reveals how things are connected and the business, object, or task of the scientific study of language is to trace this history, for instance, in a corporate body. The American linguist Whitney compared languages to social institutions. In this, he was on the right track and his ideas agreed with those of Saussure. In a general way, institutions such as legal institutions, or for instance a set of rituals, or a ceremony established once and for all, have many characteristics that make them like languages, and the changes they undergo over time are very reminiscent of linguistic change, although there are enormous differences. Most institutions can be improved, corrected, reformed by will, as they are a product of a society at work, a semiological institution, a psychology of sign systems, and a social psychology. It is clear that what forms the general phenomena is the collaboration of all the individuals concerned. Thus, the linguist by observation and study can abstract general features retaining that which seems essential and universal in the social product. (Komatsu & Harris 1993: 3a, 4a, 6a, 8a, 9a, 10a).

We need the time dimension in order to estimate linguistic volume. The vertical axis of time is a projection that enables tabulation in depth. Linguistic phenomena must be placed in the time column. Then we can see on the large scale what we observe on the small scale with

isoglossematic waves flowing over a series of languages without precise boundaries with villages being the links in a chain promoting unification through the active positive force of language intercourse. Thus, Saussure's first principle is that geographic distribution should be accounted for simply in terms of time. Areas of contagion involve the dual notions of time and propagation in space (Komatsu & Harris 1993: 21a, 23a, 29a, 30a, 31a, 35a).

4.2 The Spring Semester 1911

In the second semester, Saussure developed the static synchronic linguistic model that shaped twentieth century linguistics. However, Saussure also discussed the apprenticeship of the language code; the transmission of human institutions; the powerful historical force; language as an institution; social forces; a language is always bound up with its past; the time factor; historical explanation; the persistence of continuity; the body of speakers; the collective soul; things multiplied by time; sequences; diachrony; succession of facts; kinematics, forces in movement; diachronic facts; and the vertical section (The vertical section - diachronic perspective - will be considered only by the linguist). In the 20 June 1911 lecture, Saussure chose, for himself alone, the static synchronic linguistic model while making it absolutely plain the importance to the linguist of the vertical section, kinematics in the time dimension (Komatsu & Harris 1993:70a, 95a, 97a, 101a, 103a, 105a, 106a, 107a, 109a, 124a, 125a).

4.3 Kinematics in the Time Dimension

Memes (Dawkins 1976), the meme machine and memplexes (Blackmore 1999), mimesis (Girard 1977; 1986; 1987; 2010; 2011), and the transactive memory system (Wegner 1987) constitute groundbreaking work for the study of continuity in the time dimension.

The Saussurean hypercube provides a model for layering the succession of facts in the vertical dimension with the transmission of human institutions providing a narrowing of focus. The system we have adopted is binary tabulation based on graph theory and Hall's Marriage Theorem (Bollobas 1998) and the human institution that has forced itself experientially and persistently upon our focus is the Justice Sector.

5 The Major Discontinuity

The major discontinuity between the medieval and modern epochs is the replacement of Aristotelian Mechanics with Copernican and Newtonian Mechanics as the Western worldview changed from the Ptolemaic system to the heliocentric system.

This disjunction, growing out of the freedom of the Protestant Reformation, is centred on the publication of *De revolutionibus orbium coelestium* (Copernicus 1453), the supernova of 1572, the

great comet of 1577, the publication of *Sidereus Nuncius* (Galileo 1610), and the great comet of 1618. During this Protestant flowering, the emphasis on accuracy, honesty, measurement, observation, and truth led to the notion of public space as against that of revelation by a closed elite.

The 1543 *De revolutionibus orbium coelestium*, which pioneered the notion of the heliocentric universe as opposed to the Ptolemaic system, is based on careful tabulation and multiple tabulation tables. The 1572 supernova studied closely by Tycho Brahe provided the first direct evidence of change in the Scholastic heavens while the 1577 comet studied closely by Tycho Brahe provided the first direct evidence not only that comets were not part of Earth's weather system but also that they orbited the sun. Tycho Brahe, although the last major observer from the pre telescope age, extensively used an array of evolving instruments and employed a careful observation and recording methodology which led to Kepler discovering the elliptical orbit of planets. The 1610 *Sidereus Nuncius* included telescopic maps of the moon, which was not a perfect round sphere, and news that four moons were circling Jupiter.

It is commonplace in the history of science to assert that Aristotelian Mechanics came to an end during the seventeenth and eighteenth centuries (Wikipedia, Aristotelian physics, 2012). However, one institution that remains totally embedded in the infrastructure of Aristotelian Mechanics is the Court Society, the Justice Sector, and the legal industry.

6 Straightening up Girard

A brilliant, supremely intelligent, and superb analyst, Rene Girard's pioneering work in mimetics has become clouded and confused due to his fundamental religious convictions and return to Catholicism. This backwards looking bias, direction, and prejudice overshadows his great achievements in advancing mimetics.

The major correction we wish to undertake is the Girardian notion that God, religion, and sacrifice have been intertwined since the beginning of time.

In making this correction, we first follow in the continuity of Xenophanes, Vico, and de Maistre, i.e., humanity created the Gods for their own purposes, and not vice versa (Gans 2009: 71, 69, 108). Second, we place the human species in its correct order in the great ape group between gorillas and orangutans on one side and bonobos and chimpanzees on the other side (Wrangham & Peterson 1996: 28-48). Thus, cultural patterns of human violence are more likely to be related to our ancient primate ancestry and primate grouping than to be embedded in religion and sacred practices as asserted by Girard (1961, 1972, 1978, 1982, 2007, 2010). And, along this line, as the archaeological record clearly demonstrates, an interest in technology and an appreciation of the feminine form long preceded the evidence for Gods and religion. For instance, technology i.e., standardized tool production techniques, first appears about one million years ago prior to Homo

sapiens. Then about ~60,000 evidence appears in the archaeological record of nature representation. Thus, from archaeological reality, it is really only with the appearance of the nation state that the first evidence for Gods, religion, and sacrifice appears historically to any significant degree.

Finally, Girard over-emphasizes violence. Each day globally mega billions of peaceful interactions take place every day. In brief, humanity is tuned more to peaceful interaction than to violent interaction. It is just that violent interaction is generally more memorable.

7 The Court Society, Justice Sector, and Legal Industry

7.1 Historical Background One

In taking the hardboiled approach to the study of the Court Society, one could begin by considering technology.

The Court Society, Justice Sector, and Legal Industry of the Western legal system were introduced between the Papal Reforms of 1073 and the 4th Lateran Council of 1215 with the last office to be introduced being the prosecutor in 1215.

The Court Society, Justice Sector, and Legal Industry of the Western legal system, therefore, date to the introduction of the plough team, horse shoe nail, collar harness, plough horse, three field system of crop rotation, the windmill, the treadle loom, the spinning wheel, and the water clock (White 1962: 56, 58-59, 63-65, 69-71, 86-87, 117, 119, 120). But, in entering a Courtroom in the Modern Legislative State, one finds it completely devoid of instrumentation apart from a clock on the wall. This is quite odd, as the Court was originally very quick to apply industrial and mechanical techniques to torture. Another quite remarkable about the Court is its almost full reliance on orality (Ong 1982). It is almost as if the Court has not yet comprehended the implications of writing rather like the Anglo Saxons never grasped the significance of the stirrup (White 1962: 28). And, yet another remarkable fact about the Court is its handcrafting of individual court cases. It is as if the Court was an artisan or craftsman individually shaping court cases out of wood at the speed of a ox drawn wagon. Then it slowly dawns on one, the Court is a fossilized periodization travelling as a meme, mimetic raft, or a transactive memory system within the infrastructure of the Modern Legislative State.

7.2 Historical Background Two

In taking the hardboiled approach to the study of the Court Society, one could continue by considering the voices of victims of the Court.

From the Metalogicon of John of Salisbury to the Goliards of the Carmina Burana to The Divine Comedy of Dante to the Defensor Pacis of Marsilius of Padua one can read of the angry reaction of citizens and communities when lawyers seized control of governance. The Lineage of Lady Meed (Yunck 1963); The Discovery of the Individual 1050-1200 (Morris 1972); The Formation of a Persecuting Society (Moore 1987); The First European Revolution c. 970-1215 (Moore 2000); Plantagenet England 1225-1360 (Prestwich 2005); and The Medieval Origins of The Legal Profession (Brundage 2008) make it quite clear the disgust, horror, and terror experienced by citizens and communities when governance became the provenance of the Court Society.

In fact, the current peaceful face of the Western church over the past few centuries might possibly be fully explained by the meiotic cloning of the secular Courts from the Canon Courts, a meiotic cloning which carried away the fever, the infection, the intolerance, and the violence injected by the legal profession into the Church while the Church slowly recovered from legalism returning more to its roots of governance. By contrast, the secular states may have become more aggressive, intolerant, and vicious as a result.

7.3 Historical Background Three

In taking the hardboiled approach to the study of the Court Society, one can continue with the collapse of the Carolingian kingdom and the rise of the Court Society as a historical sublimation of the pillaging and plundering knights. The Crisis of Church and State 1050-1300 (Tierney 1988); The Peace of God: Social Violence and the Religious Response in France around the Year 1000 (Head and Landes 1992); Cultures of Power: Lordship, Status, and Process in Twelfth Century Europe (Bisson 1995); Communities of Violence: Persecution of Minorities in the Middle Ages (Nirenberg 1996); Unjust Seizure: Conflict, Interest, & Authority in an Early Medieval Society (Brown 2001); and The Crisis of the Twentieth Century (Bisson 2009) provide the binary connections between pillaging and plundering knights and pillaging and plundering lawyers as the latter evolved out of the former.

24 Binary Pairs between Medieval Fortification and the Current Court Society		
1	Ambush Alliances	Barristerial Embargo
2	Armor and Arsenal	Tools of Law
3	Barriers & Buttresses	Defence walls
4	Battering rams	Attack Machines
5	Bunkers	Siege mentality
6	Castle	Court
7	Castellations	Law Firms
8	Cells	Cells
9	Challenge	Plaintiff's Claim
10	Charge	Charge Sheet
11	Court Yard	Court
12	Duel/Joust/Tournament	Court case
13	Gate Keepers	Gate Keepers
14	High Hills	High Court

15	Keep	Keep
16	Knight	Lawyers
17	Lords/Seigneurs	Judges
18	Moat	Defensive Tactics
19	Raiding Parties	Lawyers
20	Serfs	The People
21	Siege Mentality	Silo Mentality
22	Stonewalls	Stonewall
23	Throwing Machines	Legal Devices
24	Two Swords	Independent Enclave

Table One – 24 Castle and Court Binary Pairs

These 24 binary pairs constitute a few ghost relics of the medieval imprint sublimated in the current infrastructure of the current law society. One only has to add in the offices of bailiff, registrar, and sheriff to further interconnect the world of castle and Court.

7.4 Historical Background Four

In taking the hardboiled approach to the study of the Court Society, one could continue with medieval cosmology.

In the feudal and medieval world, Aristotelian mechanics provided the structure of medieval cosmology with Thomas Aquinas providing the synthesis between Aristotle and Church with his *Suma Theologiae*, i.e., Volume 10, Cosmology.

Harnett (2012a) has already provided 24 binary pairs between Aristotelian mechanics and the functional structuralism of the Court.

A Second 24 Binary Pairs between Aristotelian Mechanics and the Court		
25	Assignment of Rank	Court Hierarchy
26	Bound	Binding
27	Chain and Yoke	Chain and Yoke
28	Circle of Perfection	Circle of Perfection
29	Class-based	Class-based
30	Degree	Degree
31	Destiny, Destination	Destiny, Destination
32	Feudal Hierarchy	Feudal Hierarchy
33	Finis Ultimus	Finis Ultimus
34	Fixed in Place	Fixed in Place
35	Fulfillment	Fulfillment
36	Geocentric	Geocentric
37	Goal-Oriented	Goal-Oriented
38	Great Chain of Being	Great Chain of Being
39	Primum Mobile	Primum Mobile
40	Privilege & Priority	Privilegium

41	Ptolemaic	Ptolemaic
42	Rest	Rest
43	Shells	Shells
44	Stationary Hierarchy	Stationary Hierarchy
45	Summum Bonum	Summum Bonum
46	Supernatural	Supernatural
47	Telos - Teleological	Telos - Teleological
48	Unequal	Unequal

Table Two — A Second 24 Cosmos and Court Binary Pairs

On Ecclesiastical Power (Giles of Rome 1300); Medieval Cosmology (Duhem 1985), The Age of the Two-Faced Janus: The Comets of 1577 and 1618 and the Decline of the Aristotelian World View in the Netherlands (Van Nouhuys 1998), Freedom as Motion (Feldman (2001), Order and Exclusion (Iogna-Prat 2002), and Wikipedia on Aristotelian mechanics and Aristotelian physics can take one deep into the attitudes, behavior, habits, infrastructure, methodological mindset, and systemics of the Court Society.

The Scholastic cosmology of Aristotelian mechanics provides for a two-law system, one for the perfection of Empyrean heaven and one for the corrupt denizens of the sub-lunary realm. Here, from this ancient dichotomy, we can observe the origins both not only of the Gelasian separation of Church and the State and of the Two Swords bifurcation but also of the class inequality of the application of the Rule of Law, i.e., duocracy, elite, Privilegium).

The Scholastic cosmology of Aristotelian mechanics is fully supported by ‘Nature’ that was created by God to be eternal, fixed, perfect, static, and unchanging until the end of days. Motion is explained as everything moving to its correct place (telos) in the cosmos in a great chain of being with human society being organized in the imitation and mimesis of the divine order in such intentional parallelism that it becomes easy to identify systemic binary pairs and, thereby, to explain Court praxis.

7.5 Brief Review of the Historical Background

It is the Saussurean synchronic plane that conceals the feudal and medieval palimpsest of practices surviving in the Western legal system. Thus, it can come as quite to a shock to observe a memplex, or mimetic system, or transactive memory system of Aristotelian mechanics surviving as an autonomous and independent enclave within the Modern Legislative State. This is rather like the discovery of the Coelacanth.

While memtube or memtube bundle might better describe the continuity of Aristotelian mechanics surviving in the core of the Modern Legislative State, Wellentheorie (Wave Theory) prefers to model the memtube braid as a standing wave which is motionless yet constantly on the move.

Thus, rather than invoking Jack and his ‘new type of felling axe developed in the tenth century’ (White 1964: 41) to chop down the memtube braid, which has been a magic tree producing riches for its God-like owners, the notion of a standing wave enables us, the people, to alter, channel, dam, and divert the current flow towards a standing wave formulated upon more modern cosmological principles.

8 Legal Methodology

The fatal flaws of Analytical Centralism, Ratio Scripta, and the ratiocinative syntax of Stationary Systems, the coup d’etat by the legal profession on the infrastructure of decision-making, Dulocracy, and the vectors of Wave Dynamics are discussed in Harnett (2010), with Section 9, Implications for the Legislative State, including a list of the abusive linguistic tactics in the legal method toolbox, the sublimated weaponry “excited and ambitious young men carried from Bologna University to the Courts of Latin Europe” (Moore 2000: 119).

Abusive Linguistic Tactics in Legal Methodology	
1	Adversarial system, Disputatio
2	Alienate, Isolate, and Marginalize
3	Amnesia, Back Burner, Delay, Forget, Ignoring, Inaction, Stall
4	Art of Concealment, Deception, Dissembling, Disinformation,
5	Ambush & Attack the Vulnerable
6	Blather, Bluster, Bluff, Bombast, Brush-off, Sweep Away
7	Blind Eye, Deaf Ear, Denial, Silent Treatment, Silo Mentality
8	Blow out of proportion, Exaggeration
9	Brainwash, Mind Control, Mind Games, Persuasion
10	Bully, Coercion, Intimidation, Rattle the Cage, Shock and Awe, Strong Arm
11	Belittle, Bewilder, Burn-out
12	Castellation, Closed Ranks, Cronyism
13	Confuse, Disorientate, Diversion, Keep in the Dark
14	Coordination, Containment, Lock-down
15	Cook the Books, False Accounting, Manipulating the Data, Rigging the Results
16	Crocodile Tears, False Friends, False Sympathy, Trojan Horses
17	Death by a Thousand Cuts
18	Downplay, Downsize, Trivialize
19	Deletion, Erasure, Overwrite
20	Demonize, Discredit, Vilification
21	Demoralize, Denigrate, Derision, Dishearten
22	Domination, Entitlement, Lordship, Seigniorial attitude, Top down
23	Dust in the Eyes
24	Exclusion, Exhaustion
25	Fabrication, Fictions to save appearances, Invention (Inventio)
26	Firewalls and Stonewalls, Spin Management, Wagon circling
27	Formation of high stress situations
28	Games of Distraction, Gaming the Law, Gaming Legislation
29	Garden Pathing, Misdirect, Red Herring, Sidetrack
30	Gaslighting (manipulating facts to convince someone they are insane)

31	Gatekeepers
32	Group Alliances, Group Cohesion, Group Tactics
33	Harnessed Team, Show Trials, Singing from the Same Page, Stage managing
34	Hijacking, Holding hostage, Usurpation
35	Hoodwinking, Hiding
36	Insider Trading, Match-Fixing, Rigging the Results
37	Masking, Misrepresentation, Mixed Messaging, Muddying the waters
38	Mission Creep
39	Overlooking, Overwhelm, Overwriting
40	Paper Trails, Paper walls, Paper wars
41	Plastic Rulebook, Propaganda, Psychological Pressure
42	Planting Evidence, Tampering with the Evidence, With-holding Evidence
43	Pretense, Ploys, Pretext
44	Rhetorical Cloaks
45	Rhetorical Runaround, Spin-doctoring, Smoke and Mirrors
46	Scapegoat, Witch hunt
47	Shout, Smirk, Sneer, Snigger, Snort
48	Subornment, Subversion
49	Tunnel Vision
50	Window Dressing

Table Three - Abusive Linguistic Tactics in Legal Methodology

This table of abusive linguistic tactics in legal methodology demonstrates that social psychology is the core of the Justice Sector, not Justice, nor logic, nor the Rule of Law.

The table also demonstrates that the prime goal of legal methodology is to break and destroy the dignity, expectation, hope, spirit, and will of the targeted citizen.

9 Sticks, Stones, and Words

The old adage ‘Sticks and stones may break my bones but words will never hurt me’ is entirely false. Broken bones can heal but systematic exposure to abusive linguistic tactics in any situation act upon brain processes at the biological, chemical, and physiological level.

We term this effect Severe Litigation Syndrome. Severe Litigation Syndrome is a reaction to abusive linguistic tactics, a toxic cocktail that attacks the victim internally and destroys them from within. Plato in his Republic, Book III, 413, b, termed this legal praxis ‘magical poisoning’. Victims of Court processes often become anxious; eat poorly, feel fatigued; experience a lack of companionship, a lack of control over their lives; out of tune with those around them; they have no one to talk to; and become unwell. These reactions to the social situation of the Court leads to physiological changes in the human body, e.g., brain; cardiovascular; genetic expression; inflammation; immune system; metabolic system.

The degrees of distress triggered by Court processes lead to activation of the sympathetic nervous system; elevated molecular markers of stress; higher vascular resistance; increased activity for several genes encoding signaling molecules that promote inflammation and decreased activity for genes that normally put the brakes on inflammation and on viral invaders. It is these physiological changes caused by Court processes that led to brain alteration, gene alteration, heart alteration, immune alteration, metabolic alteration, and also to social alteration.

The chemical alteration triggered by Court degrees of distress lead to less enjoyment in social interactions, less will to participate in social interactions, and less social interactions per se. This retreat from social interactions, i.e., social isolation, triggers a second on-going wave of physiological changes in the human body.

The abusive linguistic behavior of the legal method constitutes chemical warfare against the citizens and residents of a nation. In this chemical warfare, abusive linguistic behavior alters the levels of dopamine and serotonin in the client (victim). Control the levels of dopamine and serotonin in the client (victim) and the client/victim is under the control of the lawyer and the legal method. Increase or maintain the toxic chemical regime through an extended time period and the client/victim is killed by their own body. This is the legal method and it leaves no visible evidence on the surface.

Chemical markers such as blood pressure, cholesterol, cortisol, epinephrine, and white blood cells and functional magnetic resonance of metabolic activity in the brain can track the host of health problems set in motion by a close contact with the legal method.

10 Legal Talk

The lack of instrumentation in the current Court system of law management is surprising, especially as the Court Society was originally very quick to employ the belt, cog, crankshaft, gears, steam, and wheels of mechanics to technologicalize their methodology of persuasive advocacy.

Legal Talk surviving from the Mechanicalization of Persuasive Advocacy	
1	Blind her
2	Break him
3	Burn them
4	Bury her alive
5	Cage him
6	Chain them
7	Choke her
8	Clamp him
9	Collar them
10	Corral her
11	Crush him

12	Cut them off/open/out
13	Dial/Increase/Ratchet/Turn up the heat, pressure, tension
14	Dislocate her
15	Disorientate him
16	Fence them in/off/out
17	Give her a jolt/prod/wake-up call
18	Grind him down/up
19	Gut them
20	Hack away/at/into
21	Hang her high/up
22	Hatchet job
23	Keep him in the dark
24	Light a fire under them
25	Lock down/up
26	Nail her down/up
27	Overload, overwhelm
28	Peel away
29	Pile up the problems
30	Press him
31	Pull/tear them apart
32	Put on the Squeeze
33	Put on the thumbscrews
34	Rip apart/into/off/up
35	Screw the client
36	Shoot an argument full of holes
37	Shackle her
38	Skin him alive
39	Smoke them out
40	Squash an appeal
41	Stake out
42	Strap down
43	Tighten the noose
44	Wake her up
45	Weigh him down

Table Four - Legal Talk surviving from the Mechanicalization of Persuasive Advocacy

The table demonstrates once again that the prime goal of legal methodology is to break and destroy the dignity, expectation, hope, spirit, and will of the targeted citizen.

The Court Society would grind to a halt if they were unable to utilize the sublimated language and lexicon of their former mechanicalization of persuasive advocacy.

11 Mimetic Mountain

They say don't go on mimetic mountain because the time tabulation of memes, meme plexes, memtubes, mimesis, and transactive memory systems make no sense on the Saussurean static synchronic plane. But the static synchronic plane is, first, only one part of the Saussurean schema

and, second, it is a palimpsest of the past, the product of praxis.

Some might prefer to see the contours of mimetic mountain as a dynamic dust devil, funnel, tornado, typhoon, and whirlwind, but broadly-based in spacetime with its apex in the present the mimetic mountain trope serves as a useful frame for Cartesian coordinates, contours, spreadsheets, summation, and tabulation. So, with the current Court society viewed as a hybridization cloned from castle and Church praxis dating from the eleventh, twelfth, and thirteenth centuries in Europe, we can briefly review its origins on mimetic mountain from the perspective of the scenic imagination (Gans 2008).

It is likely the current Court commenced as cannibal hunters preying on their own species during the Paleolithic which then, as a transactive memory system, industrialized its ‘perseverance hunting’ operations by mimesis during the Neolithic Agricultural Revolution at the end of the last ice age. From this perspective, the current Court system is better viewed a farm and factory operation hidden from view by rhetorical cloaking, masking, and praxis. A cowboy at a rodeo wrestling a cow or steer to the ground and then tying it up within a time limit or a Sun bear in a Chinese iron cage with a catheter inserted into its bile duct provide reverse engineering images for the origins of the functional structures of the Court during the Neolithic Agricultural Revolution.

Farming and Factory Traits of the Current Court System		
1	Abattoir	Court
2	Factory	Court
3	Farm	Court
4	Farm House	Court
5	Cages, Pens, Stables, & Stalls	Court
6	Chains, collars,leads, & harnesses	Court
7	Fences & Walls	Rule of Law
8	Gates and Yards	Court
9	Gatekeepers	Court
10	Tally	Registrar
11	Farmer	Judge
12	Farm Workers	Lawyers
13	Shepherding	Judge & Lawyers
14	Milking& Shearing	Court
15	Tanning & Weaving	Court
16	Animals	The Sub-Humans

Table Five – Farming and Factory Traits of the Current Court System

Just as a farmer wears a leather jacket or shoes cut, cured, and tanned from his farm beasts, it is not difficult to find lawyers wearing the properties, possessions, and resources they have culled and cut from their victims. From this public display of trophy taking by lawyers, it is not difficult to build up and tabulate binary pairs on mimetic mountain between cannibals displaying their trophy bones and legal practitioners.

Then, in the second wave of industrialization of legal methodology, the legal profession mechanicalized their persuasive advocacy.

The puzzle is why has the legal profession been so reticent and slow to digitalize? One answer is that persuasive advocacy is not open to digitalization. The second answer is that digitalization eliminates the legal profession by backwards incompatibility.

12 Humans are Born Good

In the context of the impartial Brownian storm hypercube, accuracy, honesty, and truth are the paramount indicators of species survival. The human brain has evolved to be accurate, honest, and true.

This position can be first crosschecked externally against the millions of people who have been killed in horrific ways by the Court Society for defending what they believe to be accurate, honest, and true facts, whatever these might have been.

This position can be second cross-checked internally against the human brain which recent discoveries suggest contain Place cells, discovered in 1971 by O'Keefe and Dostrovsky; Grid cells, discovered in 2005 by Moser et al.; and Border cells, discovered in 2008, by the Moser team at the Centre for the Biology of Memory (CBM), Norway.

Bernier et al. (2010); Bird et al. (2010); Boccara et al. (2010); Brandon et al. (2011) Doeller et al. (2010); Fyhn et al (2007); Jacobs et al. (2010); Knierim & Hamilton (2011); Langston et al. (2010); Mitsushima et al (2011); Moser & Moser (2008); Nadal & Eichenbaum (1999); O'Keefe & Nadel (1978); Rosamund et al. (2010); and Solstad et al. 2008) provide a neurological background for the brain's spatial representation systems which must provide the chemical basis for any notion of the existence of alleged Reason.

Place cells (hippocampus), Grid cells (entorhinal cortex), and Border cells (entorhinal cortex) may help explain why people exposed to prolonged Court distortions of Spacetime sicken and commit suicide, i.e., the brain kills itself to avoid systematic tortious interferences with its cognitive computation of self-position in Euclidean space.

Plato termed legal methodology, in addition to word wizardry, as 'magical poisoning' (Republic, Book III, 413, b). Plato may have made a vital observation, for words systematically out of synchronization with Spacetime realities could seriously interfere with neural transmission in the brain, thereby, causing permanent physiochemical alteration, clinical depression, and compulsive suicide attempts, i.e., 'magical poisoning'.

Plato's 'magical poisoning' would operate by exposure to the word wizardry of legal methodology which, disturbing the brain's spatial representation systems, would reduce theta oscillations, disassociate the mechanisms of internal spatial coordinate system, and generate episodic memory, mental, and spatial incoherence causing anxiety, fear, isolation, lack of confidence, nightmares, sleeplessness, and social death.

The perversion of neurological cognitive computation of self-position in Euclidean space built into the human brain by legal persecution also could have created critical literature especially satire. Thus, one thousand years after the Goliards, neurological advancement may provide a physiochemical foundation for their conclusion that the establishment of the legal profession constituted proof for the 'Kingdom of the Anti-Christ.

Adversarial, Disputatio, Inventio, and Persuasive Advocacy cannot bypass, fool, overcome, or trick cognitive computation of self-position in Euclidean space built into the human brain. Instead, internally sickened by induced brain processes, the targeted victim gives up, admitting, confessing, or surrenders all rights, in order to escape the toxic cocktail of chemistry being set in motion by exposure to legal methodology. Therefore, the automatic disgust many humans experience upon encountering a judge or lawyer, or legal document could have a neurological basis built into their mammalian Place cells, Grid cells, and Border cells evolved as a consequence of the Brownian Storm Hypercube.

And, third, this position can be crosschecked on a much deeper level by examining the behavior of the slime mold *Physarum polycephalum* that is able to consistently compute the time-shortest route within eight hours ("Intelligence: Maze-solving by an amoeba organism", by Nagasaki of the Nagoya Biometric Control Research Centre, *NATURE*, 407, 470, 28 September 2000.). An organism lacking either a brain or a nervous system, *Physarum polycephalum* is far more honest than a judge or lawyer because it does not engage in (1) Disputatio; (2) Inventio, & (3) Persuasive Advocacy.

13 Gorillas in Our Midst

Planet Earth is not the corrupt place as taught by Aristotelian mechanics and humans are not naturally corrupt. Humans become corrupted by the corrupting genre of Reason that places ends over means, omits the inconvenient truths, and is self-serving.

A defunct, obsolete, and superseded literary genre, the Age of Reason is dead although it still exists as the walking dead narrative. *The Invisible Gorilla* (Chabris and Simons 2009) provides an excellent review of the failures and flaws of Reason. For more reading on this topic, see *Brain Fiction* (Hirstein 2006); *Breaking the Spell* (Dennett 2006); *On Being Certain* (Burton 2008); *The Folly of Fools* (Trivers 2011).

Association, belief, correlation, chronology, intuition, pattern, and sequence are not causal and are not proof of causation (Chabris and Simons 2009).

Practising calculated deception, cherry picking, deliberate cropping, doctoring reality, and possessing a false sense of safety, an inflated sense of importance, an illusion of confidence, an over estimation of abilities, and an underestimation of consequences, error, and risk, the legal profession is not only unskilled and unaware of it but also a danger to civilization, society, the safety of the state, and the future of the human species.

14 Why the Legal Profession has not Previously Imploded

There are three basic explanations as to the long-standing survival success of this profession. First, it is a standing wave. Second, it directs violence outwards against all other groups rather than inwards. And, third, in Harnett (2012a) we identified eighty binary pairs between crows and lawyers but since then we have read *The Folly of Fools* (Trivers 2011), where, in Chapter Two, noting that the Indians 4000 years ago and Aristotle wrote on the host parasite relationship, Trivers describes bird brood parasites such as the Cowbird, Cuckoo, Hawk Cuckoo, and Jay.

Trivers writes, “There is another explanation for hosts’ not discriminating against obvious mimics - fear of the consequences. ‘Mafia-like’ behavior has been described in a couple of bird species, in which a cuckoo or cowbird punishes those hosts who eject their eggs by destroying their entire nest. It becomes a matter of accepting a degree of parasitism or being really badly treated - like a demand payoff (tax) instead of an outright killing” (P. 34). In brief, human society tolerates the parasite relationship of the Court because it is a better option than having the entire nest destroyed.

Reed Warblers can learn from neighbourhood mimetics to mob cuckoos.

Trivers observes: “To be victimized by systematic deception in your own life can cause deep pain” (P. 36).

15 Where to from Here?

2015 is the 800th anniversary of the 1215 Magna Carta and 2017 is the 500 anniversary of the start of the Protestant Reformation, whose great imprint upon Western epistemology has been commonplace learning and the notions of public accountability, credibility, measurement, observation, transparency, and verification. Current Western preoccupation with Afghanistan, Iraq, and the economic crisis has overshadowed the infrastructure problems of the Modern Legislative State and the need for neosecularization, a reamplification of the secular principles of the Protestant Reformation.

Broken functionality by instrumentalization without backwards compatibility is the path forward for reform of law management. Construction of a default society coupled with Smart Documents is a neosecular genre shift in law management.

The key is for Governments to implement an Electronic Case File Act for the case file is the central core of the legal system, not the millennial old offices that surround it. Initial reform can begin with a cyborg or hybrid Court that provides citizens with the option between machine and magistrate. This binary option breaks the 5000 millennia old monopoly of the magistrates.

Standardized automatic default and fall back positions built into contracts, inheritance, marriages, relationships, risk, and Smart Documents provides everyone with a baseline that can be custom designed by choice.

In the Brownian Storm Hypercube, much is automatically undecidable. Thus, the machine law management system can be complemented first by the Casino Court, which provides participants with the opportunity to select their own options and to win according to preset proportionality. The Casino Court need not be binding and could be re-entered and re-entered until participants reach agreement. Second, People Courts, supervised by a non-playing manager, can handle the residue.

16 Old Orders Old Worlds

Unmaking the Western legal system requires unmaking the medieval Christian world of castle and cosmos. Or, alternatively, breaking the functionality of the current Western legal system requires no compatibility with old ordering systems from old worlds.

One millennium ago, after the collapse of the Carolingian kingdom in Europe, the aristocratic Frankish families became organized by two great social groups, Castellations and Church.

Hybridization by meiotic cloning from each institution produced the functional structuralism of the current secular Court with legitimacy for the Court coming first from mimicking the Cosmos as represented by Aristotelian Ptolemaic Mechanics and second from asserting from the wrong side of history the worn out dogmas of old dichotomies, the two physics and the two swords. But the cosmic foundations for this astrological parallelism have dissolved, thereby, displaying by their untenable pretensions its imitators to be both childish immature and hopelessly antiquated.

Five hundred years ago, the significance of the antisolar tails of comets began to have secular application. The antistate tails of the Court have neosecular significance.

17 Conclusion

The Saussurean static synchronic plane has concealed kinetic continuity in the time dimension from linguistic analysis. However, the Saussurean static synchronic plane is only one part of the Saussurean schema of linguistic analysis.

Thus, in taking a hard-boiled forensic anthropological look at streets darker with something more than night, our binary data bank has focused on the kinetic continuity of the Court Society in the time dimension where justice and truth do not out, the law is manipulated for power and profit, and where the arid formula of Reason constitutes chemical warfare.

Structured on immutable celestial nestled spheres, the Court Society is an onion that resists change. But at the end of its days this Scholastic Corporation, a ruined castle left over from the age of rhetoric, scholastics, and theology, is not, and has never been, a fit and proper institution to manage public law. Having neither cosmic connection nor divine awareness, insight, nor licence, the practices of the Court Society constitute simply sorcery or supernatural hocus pocus backed by coercion, force, and intimidation. In other words, legal methodology is not based on the ratiocinative but “*ius maletractandi*”, i.e., the right to abuse.

A legacy problem and worn-out dogma from the wrong side of history, the Court Society is the invisible gorilla located at the core of the Modern Legislative State. This can of feudal and medieval worms can no longer be kicked down the street by legislators because the legal profession is not only dangerous for public health but it is also a time bomb threatening the safety, security, serenity, and stability of the Modern Legislative State.

Aristotelian-Ptolemaic global theatre, the Judge located inside his supralunar onion castle of Empyrean heaven as omnipotent Prime Mover teleologically ordering pawns on the chess board into their places of proper place of permanent Rest as gold, jewels, money, property, and resources travel upwards attracted towards their natural owners in the superior sphere and destitution, hardship, and trouble travel downwards attracted towards the naturally corrupt hyllic sub-humans in the lower sphere does not belong to any empirical natural order of cause and effect. An extreme ideology, this judicial astrology is made even more dangerous by the fact that we don't live in a closed, geocentric, static world but within a complex system where a flap of a far away butterfly'swing can cascade endless multiplier effects. The Medieval imprint of the sublimated seigneur, his castle, his static cosmos, his keep, his rule, his knights, his tournament, and his witch-hunt can be legislated from the Modern Legislative State by the introduction of new genres of governance without backwards compatibility.

Completed at Nagoya, 21 May 2012, 6.30 AM, at the start of the solar eclipse.

18 A Short List Of Sources

- Barthes, R. 1988. *The Semiotic Challenge*. Oxford: Blackwell.
- Berman, H. 1983. *Law and Revolution: The Formation of the Western Legal Tradition*. Cambridge (Ma): Harvard University Press.
- Berman, H. 2003. *Law and Revolution II: The Impact of the Protestant Reformations on the Western Legal Tradition*. Cambridge (Ma): Harvard University Press.
- Bernier, P. & S. Grafton. 2010. 'Human Posterior Parietal Cortex Flexibly Determines Reference Frames For Reaching Based On Sensory Context.' *Neuron*, 2010; 68 (4): 776.
- Bird, C. & C. Capponi, J. King, C. Doeller, N. Burgess. 2010. 'Establishing The Boundaries: The Hippocampal Contribution To Imagining Scenes.' *J. Neurosci.* 1 September 2010: 11688-11695.
- Bisson, T. 2009. *The Crisis of the Twelfth Century: Power, Lordship, and the Origins of European Government*. Princeton: Princeton University Press.
- Bisson, T. (Ed.). 1995. *Cultures of Power: Lordship, Status, and Process in Twelfth-Century Europe*. Philadelphia: University of Pennsylvania Press.
- Blackmore, S. 1999. *The Meme Machine*. Oxford: Oxford University Press.
- Boccaro, C. & F. Sargolini, V. Thoresen, T. Solstad, M. Witter, E. Moser, M. Moser. 2010. 'Grid Cells In Pre- And Parasubiculum.' *Nature Neuroscience*, 2010; 13 (8): 987.
- Bollobas, B. 1998. *Modern Graph Theory*. New York: Springer.
- Brandon, M., & A. Bogaard, C. Libby, M. Connerney, K. Gupta, M. Hasselmo. 2011. 'Reduction of Theta Rhythm Dissociates Grid Cell Spatial Periodicity from Directional Tuning.' *Science* 29 April 2011: Vol. 332 no. 6029 pp. 595-599 DOI: 10.1126/science.1201652.
- Brown, W. 2001. *Unjust Seizure: Conflict, Interest, & Authority in An Early Medieval Society*. Cornell: Cornell University Press.
- Brundage, J. 2008. *The Medieval Origins of the Legal Profession*. Chicago: Chicago University Press.
- Burton, R. 2008. *On Being Certain*. New York: St Martin's Press.
- Chabris and Simons 2009. *The Invisible Gorilla*. New York: Random House.
- Dawkins, R. 1976. *The Selfish Gene*. Oxford: Oxford University Press.
- Dennett, D. 2007. *Breaking the Spell*. New York: Penguin.
- Doeller, C., & C. Caswell, N. Burgess. 2010. 'Evidence For Grid Cells In A Human Memory Network.' *Nature* 463, 657-661, 4 February 2010.
- Dyson, R. *Giles of Rome On Ecclesiastical Power: A Medieval Theory of World Government*. New York: Columbia University Press.
- Duhem, P. 1985. *Medieval Cosmology*. Chicago: Chicago University Press.
- Feldman, D. 2001. Lanham: University Press of America.
- Fyhn, M., & T. Hafting, A. Treves, M. Moser, E. Moser. 2007. 'Hippocampal Remapping And Grid Realignment In Entorhinal Cortex.' *Nature* 446 (7132): 190-194.
- Gans, E. 2008. *The Scenic Imagination: Originary thinking From Hobbes to the Present day*. Stanford: Stanford University Press.
- Girard, R. 1972. *Violence and the Sacred*. Baltimore: John Hopkins University Press.
- Girard, R. 1986. *The Scapegoat*. Baltimore: John Hopkins University Press.
- Girard, R. 1987. *Things Hidden Since the Foundation of the World*. Stanford: SUP.
- Girard, R. 2010. *Battling to the End*. East Lansing: Michigan State University Press.
- Harnett, I. 1995. 'Lost Worlds: Saussure, Wittgenstein, Chomsky.' *Journal of Nagoya Seirei Tandai University*. No. 15, 1995: 105-136.

- Harnett, I. 1997. 'A Topological Twist in Linguistic Representation.' *Journal of Nagoya Seirei Tandai University*. No. 17, 1997: 115-155.
- Harnett, I. 1998. 'A Tale of Two Genres' *Journal of Kinjo University*, No. 39, 1998: 295-370.
- Harnett, I. 1999. 'A Tale of Two Genres.' Part 2. *Journal of Kinjo University*, No. 40, 1999: 315-380.
- Harnett, I. 2001. 'A Tale of Two Genres.' Part 3. *Journal of Kinjo University*, No. 42, 2001: 237-298.
- Harnett, I. 2002. 'A Tale of Two Genres.' Part 4. *Journal of Kinjo University*, No. 43, 2002: 247-277.
- Harnett, I. 2003. 'A Tale of Two Genres.' Part 5. *Journal of Kinjo University*, No. 44, 2003: 295-370.
- Harnett, I. 2004. *Nonlinear Linguistics: the Dimensions of Emergence*. Ph.D (100% Rejection). Birmingham: Aston University.
- Harnett, I. 2005. *Stationary Systems (Einstein and Saussure)*. Kinjo Gakuin Daigaku Ronshu. *Studies in Humanities*. Vol. 1, No. 1.2, March 2005.
- Harnett, I. 2006. *Hertz, Saussure, and Stationary Systems*. *Journal of Kinjo University, Studies in Humanities*.
- Harnett, I. 2006. 'Dedekind, Saussure, And Stationary Systems.' Kinjo Gakuin Daigaku Ronshu. Vol. 3, No. 2, March 2007: 102-111.
- Harnett, I. 2006. 'Grassmann, Saussure, And Stationary Systems.' Kinjo Gakuin Daigaku Ronshu. *Studies in Humanities*, Vol.6, No.2, March 2010.
- Harnett, I. 2010. *Mimetic Morphs: Court and Church (2010)*. Kinjo Gakuin Daigaku Ronshu. *Studies in Humanities*, Vol. 7, No. 1, September 2010.
- Harnett, I. 2011a. *Who is Julia Sets?The Journal Chubu Gakuin University* No.12:158-162 (March 2011).
- Harnett, I. 2011b. *Poincare, Saussure, And Stationary Systems*. Kinjo Gakuin Daigaku Ronshu. *Studies in Humanities*, Vol.8, No.1, September 2011.
- Harnett, I. 2012a. *Mimetic Morphs: Court, Chimpanzee, and Crow.* Kinjo Gakuin Daigaku Ronshu. *Studies in Humanities*, Vol.8, No.2, March 2012.
- Head, T., and R. Landes (Eds.). 1992. *The Peace of God*. Cornell: Cornell University Press.
- Hirstein, W. 2006. *Brain Fiction*. Cambridge: MIT Press.
- Iogna-Pratt, D. 2002. *Order and Exclusion*. Cornell: Cornell University Press.
- Jacobs, J., & M. Kahana, A. Ekstrom, M. Mollison, I. Fried. 2010. 'A Sense Of Direction In Human Entorhinal Cortex.' *Proc. Natl. Acad. Sci. USA* 6 April: 6487-649.
- Keltner, D. 2009. *Born to be Good*. New York: Norton Press.
- Knierim, J, & D. Hamilton. 2011. 'Framing Spatial Cognition: Neural Representations Of Proximal And Distal Frames Of Reference And Their Roles In Navigation.' *Physiol. Rev.* 1 October 2011: 1245-1279.
- Komatsu E. & R. Harris. 1993. *Saussure's Third Course of Lectures on General Linguistics (1910-1911)*. Oxford. Pergamon Press.
- Langston, C. 1992. 'Life at the Edge of Chaos.' In *Artificial Life II*. (Eds. Langston, C., & C. Taylor, J. Doyne Farmer, S. Rasmussen. Redwood City: Addison-Wesley.
- Langston, R. & J. Ainge, J. Couey, C. Canto, T. Bjerknes, M. Witter, E. Moser, and M. Moser. 2010. 'Development Of The Spatial Representation System In The Rat.' *Science* 18 June 2010: Vol. 328 no. 5985 pp. 1576-1580 DOI: 10.1126/science.1188210.
- Leff, G. 1970. *Medieval Thought*. Harmondsworth: Penguin.
- Mandelbrot, B. 1983. *The Fractal Geometry of Nature*. New York: Freeman.
- Mitsushima, D. & K. Ishihara, A. Sano, H. Kessels, T. Takahashi. 2011. 'Contextual Learning Requires Synaptic Ampa Receptor Delivery In The Hippocampus.' *Proc. Natl. Acad. Sci. USA* 26 July 2011: 12503-12508.
- Moore. R. 1987. *The Formation of a Persecuting Society*. Oxford: Blackwell.

- Moore, R. *The First European Revolution (c. 970-1215)*. Oxford: Blackwell.
- Morall, J. 1970. *The Medieval Footprint*. Harmondsworth: Penguin.
- Morris, C. 1972. *The Discovery of the Individual 1050-1200*. Toronto: Toronto University Press.
- Moser E. & M. Moser M. 2008. 'A Metric For Space'. *Hippocampus*18: 1142-56.
- Nadal, L., & H. Eichenbaum. 1999. 'Introduction to the Special issue on Place Cells.' *Hippocampus* 9:341-345.
- O'Keefe, J., & L. Nadel. 1978. *The Hippocampus As A Cognitive Map*. Oxford: Oxford University Press.
- Ong, W. 1988. *Orality and Literacy*. London: Routledge.
- Nirenberg, D. 1996. *Communities of Violence*. Princeton: Princeton University Press.
- Rosamund F. Langston, James A. Ainge, Jonathan J. Couey, Cathrin B. Canto, Tale L. Bjerknes, Menno P. Witter, Edvard I. Moser, and May-Britt Moser. 2010. 'Space And Direction Are Already Represented In Specific Neurons When Rat Pups Navigate A Location For The First Time.' *Science*, 2010; 328 (5985): 1576-1580.
- Solstad, T., & C. Boccara, E. Kropff, M. Moser, E. Moser. 2008. 'Representation Of Geometric Borders In The Entorhinal Cortex.' *Science* 19 December 2008: Vol. 322 no. 5909 pp. 1865-1868, DOI: 10.1126/science.1166466.
- Trivers, R. 2011. *The Folly of Fools*. New York: Basic Books.
- Van Nouhuys, T. 1998. *The Age of Two-Faced Janus*. Leiden: Brill.
- Wallace, W. 2006. *St Thomas Aquinas Summa Theologiae. Volume 10 Cosmology*. Cambridge: Cambridge University Press.
- Wegner, D. 1986. 'Transactive memory: A contemporary analysis of the group mind.' In B.Mullen & G. R. Goethals (Eds.), *Theories of group behavior* (pp. 185-205). New York: Springer-Verlag.
- White, L. 1962. *Medieval Technology and Social Change*. Oxford: OUP.
- Witt, J. 2006. *God's Joust, God's Justice*. Cambridge: Eerdmans Publishing.
- Wrangham R. & D. Peterson. 1996. *Demonic Males: Apes and the Origins of Human Violence*. New York: Houghton Mifflin.
- Yunck, J. 1963. *The Lineage of Lady Mead*. Notre Dame: Notre Dame University Press.