

1 Unforeseen discoveries turn up unexpectedly and this is something I would like illustrate
2 at this time. I would also wish to show that this counters what a number of people have
3 written in that significant innovation and novelty in academia and science at present is
4 nonexistent.

5 But then science does progress even if it slows down after major advances. Between
6 significant contributions petty theories flourish and until new and substantive
7 contributions arrive. Phlogiston and Neptunianism and ether filling space and more
8 recently Skinnerism were the fashion until Lavoisier and Hutton and Michelson and
9 Morley and others showed otherwise. At times new instrumentation and new
10 methodologies are necessary to establish a new paradigm in some fields, and that seems
11 to be the case now.

12 Before referring to three articles on the aforementioned topic I will describe what I wish
13 to present.

14
15 My material covers several topics organized in a consistent system, reporting on so far
16 unknown facts and processes. Controversies can arise: how will people react to the
17 description of the oral biomechanism that works in a way no other biological machine has
18 ever been known to operate. The readily testable presentation accounts for a number of
19 things still unexplained and offers an invitation to disprove any of the statements.

20
21 The presentation reaches into several fields such as biology, psychology, physics,
22 meditation, and especially language in great detail. Linguistics today is what alchemy
23 was to chemistry or like astrology was to astronomy. Linguists know and teach only the
24 most obvious things, like parts of the mouth, palatal contacts of consonants, what
25 phonemes are voiced or not, measurements of air pressures, eccentric features of some
26 tribal dialect, while the actual mechanism of speech production has never been known or
27 even questioned. To serious students of language the current deluge of publications might
28 seem as comical as the experiments satirized by Swift in his Gulliver's Travels.

29
30 Comments on problems with current sciences, which simply give evidence to the bell
31 curve of natural distribution: the majority is mediocre.

32 **1. Science Is Getting Less Bang for Its Buck**

33 Despite vast increases in the time and money spent on research, progress is barely
34 keeping pace with the past. What went wrong? By [Michael NielsenPatrick Collison /](https://www.theatlantic.com/science/archive/2018/11/diminishing-returns-science/575665/)
35 [https://www.theatlantic.com/science/archive/2018/11/diminishing-returns-science/](https://www.theatlantic.com/science/archive/2018/11/diminishing-returns-science/575665/)
36 [575665/](https://www.theatlantic.com/science/archive/2018/11/diminishing-returns-science/575665/)

37 "Today, there are more scientists, more funding for science, and more scientific papers
38 published than ever before. On the surface, this is encouraging. But for all this increase in
39 effort, are we getting a proportional increase in our scientific understanding? Or are we
40 investing vastly more merely to sustain (or even see a decline in) the rate of scientific
41 progress?" [https://www.theatlantic.com/science/archive/2018/11/diminishing-returns-](https://www.theatlantic.com/science/archive/2018/11/diminishing-returns-science/575665/)
42 [science/575665/](https://www.theatlantic.com/science/archive/2018/11/diminishing-returns-science/575665/)

43
44 **2. What innovation is up against**

45 Hermanowicz, J.C. The Culture of Mediocrity. *Minerva* **51**, 363–387 (2013).
46 <https://doi.org/10.1007/s11024-013-9231-0>
47 Select groups and organizations embrace practices that perpetuate their inferiority. The
48 result is the phenomenon we call “mediocrity.” This article examines the conditions under
49 which mediocrity is selected and maintained by groups over time. Mediocrity is
50 maintained by a key social process: the marginalization of the adept, which is a response
51 to the group problem of what to do with the highly able. The problem arises when a
52 majority of a group is comprised of average members who must decide what to do with
53 high performers in the group. To solve this problem, reward systems are subverted to
54 benefit the less able and the adept are cast as deviant. Marginalization is a resolution of
55 two tensions: marginalization of the adept for their behavior, and protection from the
56 adept for the mediocre. The American research university is used as an example to
57 describe the phenomenon and to formulate a theoretic argument...Marginalizing the adept
58 illustrates an anti-meritocratic behavioral pattern which serves to sustain social systems
59 on which all people, however able, depend.
60 <https://sociology.uga.edu/directory/people/joseph-c-hermanowicz>
61 [Joseph C. Hermanowicz | Department of Sociology](#)

62
63 **3. Why we haven't had any major scientific breakthrough lately** / [Astra Politics](#) by
64 [Antonio De Santis](#) May 16, 2024

65 *Scientific research plays a pivotal role in driving progress and fostering innovation.*
66 *However, concerns have arisen regarding the diminishing occurrence of major*
67 *breakthroughs and the prevalence of incremental advancements in recent years.*
68 *Diminished Major Breakthroughs*
69 Studies indicate a decline in significant scientific breakthroughs since the 1970s. This
70 trend raises questions about the current trajectory of scientific advancement and its
71 potential impact on innovation. There is a growing inclination towards modest,
72 incremental progress in science rather than revolutionary leaps forward. This inclination
73 may constrain the transformative potential of research endeavors and impede the
74 emergence of groundbreaking discoveries.
75 *Funding Dynamics and Innovation*
76
77 [https://antoniodesantis.medium.com/why-we-havent-had-any-major-scientific-](https://antoniodesantis.medium.com/why-we-havent-had-any-major-scientific-breakthrough-lately-c2ebad424581)
78 [breakthrough-lately-c2ebad424581](https://antoniodesantis.medium.com/why-we-havent-had-any-major-scientific-breakthrough-lately-c2ebad424581)

80 My material:

81

82 Language

83 (Lg) Proof of hard wiring of grammar (cf Chomsky) through the introduction of the
84 General Lingual Matrix. This is the same matrix that has only been known as the vowel
85 quadrilateral, but it is a device that systematizes many grammatical and cognitive features
86 of speech. The fact that in the GLM all parts of speech in all languages belong in the
87 same specific matricial cells substantiates the fact that this is not learned.

88

89 (Lg) The basis of articulation in general and in specific languages can be described for
 90 the first time. Exactly why pronunciations differ has never been known.

91 Method for manipulating the basis of articulation is now available, i.e., how to produce
 92 any native accent. This may be difficult for many but can be approximated and even
 93 reached by some. I have made audio files to show this. See <https://>
 94

95 (Lg) What is a syllable? Defining the syllable has been claimed to be impossible till now
 96 and the highly interesting and surprising explanation is utterly different from what has
 97 been supposed.

98
 99 (Lg) Most remarkable is the way nature has ingeniously engineered the creation of all
 100 phonemes in speech. The source involves triplicity. There are three basic nodes which are
 101 centers of mass of muscular forces in the tongue and are labeled h, n and m.

102 They are so named because while in various orolingual functions these nodes play
 103 different roles in speech they produce the phonemes /h/, /n/ and /m/. Within speech these
 104 nodes merge in different conformations in a three by three matrix. With the m node in the
 105 center combining with h and n nodes positioned in the outer cells mergers made in
 106 various permutations produce the basic three vowels as illustrated in **Fig. 1**. With h
 107 centrally and n and m outside all the consonants are generated. And with n centrally a
 108 sufficient number of mergers are possible to give rise to the numerous phonemes in
 109 languages. Unaware of it starting from infancy we all perform these actions in speech.
 110 Linguists have never been aware with this.

111
 112 (Lg) (Physics) Physics has never been properly employed linguistics. The use of center of
 113 mass in speech movements has been unknown and therefore oral mechanics could not be
 114 rigorously analyzed. They are observable when applying glottoregulation. The
 115 importance of the center of mass is that it shows the forces targeting it so that these can
 116 be readily identified. For example, the centers of mass of the phoneme /s/ or /a/ or /g/
 117 demonstrate the specific muscular forces creating it.

118
 119 (Lg) The lingual matrix: is a so far undiscovered functional structure in linguistics—a
 120 universally applicable tool for the corporal grounding of grammar and for the cognitive
 121 aspects of language.

122
 123 (Lg) The effect of climate on speech articulation, an improvement over the insignificant
 124 paper by linguist Ian Maddieson.

125
 126 (Lg) The origins of language—not the predictable paper or book, forced to exist by
 127 “publish or perish” nor MacNeilage’s Frame and Content theory, but a well reasoned
 128 presentation.

129
 130 Physiology
 131

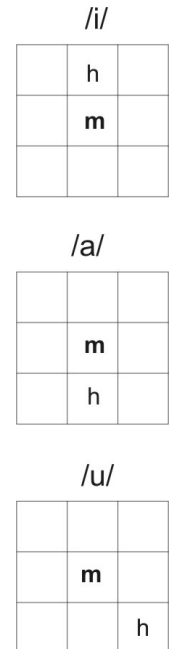


Fig.1.

132 (Physio) (Lg) **Glottoregulation** is an axiomatic function in all body movements whose
133 existence has never been considered. In a nutshell, any body movement to various
134 degrees distorts the laryngeal apparatus, which contains the glottis, and the distortion, i.e.,
135 glottal closure must be corrected to maintain the best possible state of respiration.
136 Hence the body must constantly adjust the muscular frame to optimize glottal conditions.
137 Even small changes like tilting the head require rebalancing some part of the body.

138

139 (Physio) (Biology) (Monosoma) Bodily kinetic differences between the major racial
140 divisions: variations in body movement, in temperament, in food preferences, modes of
141 eating, gesticulation, manipulation of feet, dance, musical intervals and harmony, all of
142 which are neither understood nor studied. E.g., why Chinese way of writing is unique,
143 why Chinese chopsticks are much longer than Japanese ones, why gesticulation is
144 determined by ethnic groping, why North Europeans have deep voices, why Arabs and
145 Indians dance flat footed while Europeans feature the tip of the feet (cf. Irish dance), and
146 much more.

147

148 (Physio) (Mind) The center point and its surrounding field (or the center of mass and its
149 manifold) is a basic device in physics, astronomy and engineering but has never seen
150 application in linguistics or in the study of the mind. A practical example: why going
151 through a door immediately alters mental contents or why something forgotten tends to
152 be recalled by returning to the place, or what brings the spiritual effect of gazing at the
153 horizon or the open sky, why things appear attractive or repulsive, etc.

154

155 (Physio) The physiological function of **alternation**
156 This is new to biology and medicine. Serial alternation in states and processes is a
157 pervasive characteristic in the biological mechanism found in human and other creatures.
158 It parallels the on/off clocking action of a computer. It is fundamentally present, as in
159 walking with left and right legs and arms exchanging, in blinking, heart beat, etc., and
160 hidden in all of our actions, it connects to **glottoregulation**. An often seen and practiced
161 alternation happens when one looks left sideways with a 90 degree turn of the head and
162 then immediately turns right in the contrary direction. This is also a demonstration of
163 glottoregulation, q.v., whereby significant left side distortion of laryngeal apparatus is
164 corrected by movement to the left.

165

166 (Physio) (Mind) Monosoma: all parts of body and mind connect to constitute a single
167 mechanism. This has been established in the East and was worked on by William James
168 in the West; it is not related to monism or monosomy. There are countless examples of
169 monosomatic behaviors, just a few instances: looking up opens the eyes, looking down
170 narrows them. However small further movement respectively closes or opens the eyes
171 illustrating alternation. Looking to the right in scanning a street and then immediately
172 looking to the left is constantly seen in persons standing on the street. Walking with arms
173 on the sides the right and left arms swing forward and backward. Walking with both arms
174 holding a tray in front creates sideways swinging of the arms. Holding palms facing

175 down decreases nasal breathing, palms facing up increases it. Rubbing a smooth surface
176 with finger tip moves the tongue forward, doing the same with coarse surface moves
177 tongue backwards. Rotating or crossing the eyes stops thinking. For speakers of English
178 and for those of related languages, the eyes focus backward inside the head, whereas in
179 thinking of the future the mental gaze is directed forward. Eye movements are
180 inseparable from mental events, they are tied together as integral components of thoughts.

181

182 (Physio) Perception of the geomagnetic fields by humans– something widely researched
183 mostly in insects and in some animals is readily available and demonstrable with the
184 application of regularization. Magnetic orientation in cows and horses has been studied
185 without success in explaining it, nevertheless it can be explained – apparently identical
186 with human version. So far I have found neither researchers nor discoverer's clubs to
187 show an interest.(Physio) Triplicities in body – it was never pointed out that a great many
188 (at least 150) organs, behaviors and cognition possess three layers or three components
189 including three visual ranges, three vowel spaces, three genders, three divisions of time,
190 the three ages of man, the Catholic trinity, etc. **LINKS!**

191

192 (Physio) (Monosoma) (Evolution) When the arms are fully stretched upward up the
193 palms opens, when the arms press down the palm closes. This behavior shows that
194 reaching up is connected to grabbing a tree branch or a fruit or a parent, while reaching
195 down aims at holding a branch for support and also prepares for knuckle walking seen
196 with gorillas and chimpanzees. When the arms are fully stretched forward with palms
197 facing the ground the palms close and when with the same arms fully stretched the palms
198 are turned facing up they open. Hearing rhythms deeply affects the mind and the body. A
199 constant beat hypnotically locks the mind. Marches make for ordered steps, waltzes invite
200 turning, popular trends in music brings people to indulge in quasi obscene bodily
201 twisting. Concert pianists or violinists engage in facial expressions and body movements,
202 eyes focus better if one stands and stretches upwards, when jaws move in chewing
203 olfactory channels are opened, if toes are moved facial muscles react, etc.

204

205 (Physio) (Bio) The kinetic aura – There is a projection of the body at a distance outside
206 the actual body. It is the setup frame for muscular projection of the body. It exists for any
207 conscious movement and is outside the body, being the projection of the musculature. Its
208 position relates to how far the action is outside the body and varies with age. When
209 engaged in thinking we do not perceive it because it is blocked by the thought. Most
210 ahead is for children, in growing up it comes closer and appears in the back when aging.
211 (This is one reason for loss of balance in the old).

212 This aura anticipates actual movement exerting preparatory force on the muscles about to
213 come into action. Ordinarily seeing it is covered by visual attention; it is perceived by the
214 eyes when not focusing. It may be connected with body projections of other types and
215 instance

216

217 (Physio) (Monosoma) (Mind) The three dermatomes of the head/face relate to mental
218 actions. When they are isolated the superior one deals with the outer world, the middle
219 one with attention, awareness, the lower one with the sense of self. This serves not only
220 in meditation but in normal living it can be useful in the physiology of will power, self-
221 awareness, self discipline in interviews, job applications, etc., It can dispose of the
222 imprecise verbiage given in courses and articles.

223

224

225 (Physio) (lg) The ontology of speech in infants, technically detailed, supplanting the
226 unduly emphasized and for lack of anything else the overly discussed MacNeilage's
227 Frame and Content theory. (MacNeilage & Davis, 1990, CITE!

228

229 (Physio) Why do we enjoy rhymes? This process is automatically activated by monosoma
230 and glottoregulation, which I can describe. Rhymes cause lateral extension of the lips
231 and so generate a smiling position of the oral structure.

232

233 (Physio) The mechanism of feeding. Going to fundamentals this paper reveals and
234 explains the role of rotation by nodes in the tongue with the n center—expanding the
235 academic study by Hiiemai and Palmer 2003 which states that the intricate behaviors of
236 speech derive from the complex movements in feeding. **CITE**

237

238 (Physio) (Speech) (Lg) The General Lingual Matrix, a significantly extended and
239 unexpected application of the vowel quadrilateral, that up to date has been thought of
240 only as a phonetic device whereas it has a much more expansive role in systematizing
241 grammar and vocabulary and which also indicates hard wiring of speech

242 (Physio) Perception of the geomagnetic fields by humans— something widely researched
243 mostly in insects and in some animals is readily available and demonstrable with the
244 application of regularization. Magnetic orientation in cows and horses has been studied
245 without success in explaining it, nevertheless it can be explained – apparently identical
246 with human version. So far I have found neither researchers nor discoverer's clubs to
247 show an interest.(Physio) Triplicities in body – it was never pointed out that a great many
248 (at least 150) organs, behaviors and cognitions possess three layers or three components
249 including three visual ranges, three vowel spaces, three genders, three divisions of time,
250 the three ages of man, the Catholic trinity, etc. **LINKS!**

251

252 (Physio) The h n m nodes are three lingual nodes, i.e., centers of mass which connect to
253 physical and mental functions. In articulation they supply the three phonemes /h/, /n/, and
254 /m/. They are also the automatically articulated phonemes in respiration, mastication and
255 swallowing. Cognitively, h belongs to the perception of the outside world, n to attention
256 and m to the sense of self

257

258 (Physio) Gesticulation – why it exists: its function and origin in the evolution of speech
259 and its connection to the Upper Visceral Body, see below

260

261 (Physio) (Ergonomics) (Cognition): movements and energy spending are minimized if we
262 employ the glottoregulation. Using the geomagnetic field also assists: facing poles
263 decreases energy used, likely caused by geomagnetic perception.

264

265 (Physio) A/T or abdominal/thoracic respiration – their coaction and isolation, **not** covered
266 here, just to mention that crossing the legs while sitting creates abdominal respiration
267 with better body balance and mental equanimity hence it is preferred when sitting, mostly
268 by men. This is the reason for the common advice “take a deep breath” to calm the mind.
269 This topic also connects to the Upper Visceral Body

270

271 Biology and Mind

272 (Biol) (Mind) Music and art – the synesthetic mechanism—how sounds and sights
273 engender feelings. Relate this to... The genetic connection is not certain although
274 intermarriage in musical families of the Bachs may lead to this conclusion, while great
275 musical talent can spring without obvious sources.

276

277 (Bio) (Cognition) The tongue is both horizontally and axially divided into three parts, cf.
278 “A Three-Dimensional Atlas of Human Tongue Muscles” (<https://doi.org/10.1002/ar.22711>).
279 This reaches into a number of body and mind functions and cognitions. For instance,
280 With words of positive value the superior layer is engaged, cf. “yes”, “sweet” good,
281 “bright”. With negative connotation the inferior layer is used, cf. “no”, “bad”, “bitter”
282 “dark” and with neutral content it is the middle layer that becomes primary, cf. “and”,
283 neither, so-so, gray. Apparent here is the monosomatic connection of the oral mechanism
284 with cognition. Another easily verifiable connection is how musical major and minor
285 modes respectively employ the superior versus the inferior lingual layers or anterior and
286 posterior sections.

287

288 (Bio) (Mind) (Physio) Upper Visceral Body (UV): (which goes back to the ancestral
289 vertebrate contrasting with the lower visceral body recognized today), where it is not
290 consciousness itself that is experienced, but what manifests in consciousness. Evolved
291 from an ancestral form of vertebrates,(perhaps related to Ascidiæ-sea squirt / cf. A. S.
292 Romer). Except for segment of the diaphragm and a large number of oral, laryngo-hyoid
293 and upper back parts are evolved from the gills and muscles under the gills of the fish
294 ancestor. Importantly in the UV cranial nerves directly connect to brain, unlike other
295 nerves which enter the spinal cord. Moreover, all the sensory organs reside in the UV.

296

297 (Mind) (Biol) Combining elements of Western and Eastern sciences.

298 Both Eastern and Western sciences have lacked each others’ capabilities but the two can
299 combine through the techniques which I would like to present as a new paradigm in
300 research. The means for this lies in visualizing any location in the body in detail; learning
301 this is not difficult. As we stand today introspection, as William James called it and
302 advanced to the extent of his available information has been understandably set aside in

303 the West in favor of instrumentalism. Extending and furthering James's technique by
304 introducing Eastern inner visualization opens a body of knowledge new to both Eastern
305 and Western body and mind sciences. Introspection is not altogether unknown in the
306 West. It is to a degree part of muscle building, it is introspection that powers prosthetic
307 limb control and it is also a tool applied in learning the pronunciation of second
308 languages.

309

310 (Bio) The unexpected behaviors within the *mind*-body system as concepts and as
311 articulations of the numbers 3, 6, and 9 can largely but not completely be explained by
312 glottoregulation, q.v. For speakers of Western languages 3, 6 and 9 respectively pertain to
313 sensing the left, right hands and the head. These numbers have special properties in
314 mathematical series and were also claimed by Nikola Tesla to lead to mastery in the
315 universe (<https://www.33rdsquare.com/what-did-tesla-say-about-3-6-9/>).

316 These numbers also relate to sensing the geomagnetic poles as 6= north, 3+south,
317 9=west, 6=east. Actually it is not the numbers themselves but the body-*mind* frames
318 associated with them that are involved.

319 ***Make file in GT webpage***

320 D:\Documents\GT DOCUMENTS\EXPERIMENTS COLLECTED\3 6 9

321

322 (Bio) (Mind) The geometric base of the mind-body
323 Some of Eastern yogas and meditation are built on mental projections of circles and
324 squares or axes in the body, cf. chakras, and Tantric axes, vases, in the more academically
325 rigorous Tibetan tradition, and so on. In both the East and in the West visualization is
326 taught in ambiguous terms, which should and can be replaced with clear technical
327 descriptions. The reason for using circles and such is that the mind is organized in
328 geometric configurations for this must be the simplest way for natural design to organize
329 the world surrounding the mind to a controllable state. Starting with the earliest versions
330 of the mind in primitive animals there are no better reference points than the geometrical
331 sources of the body such as bisymmetry of the eyes, of left and right, of up and down and
332 of front and behind., etc. These supply points connectable with lines giving further
333 geometric forms. Focusing the mind on geometric shapes provides a frame that when
334 held onto stops mental movements, which is the basis of mediation. Even in normal life
335 during close attention both animals and humans freeze the body holding on to the
336 muscular frame which is geometric: the two shoulders, the two hips, the two arms and
337 legs or the two eyes or ears in their combinations form squares or rectangles, and so on.
338 In normal circumstances these shapes are distorted and overlaid on each other, making
339 them too complex to observe without careful introspection. Geometricity of the mind is
340 supported by [research](#) that has shown that psychedelic drugs, such as LSD and
341 psilocybin, can induce geometric visual hallucinations that are similar to those observed
342 in conditions such as Charles Bonnet syndrome and migraine aura. These hallucinations
343 often involve complex geometric shapes and patterns, as well as a high degree of
344 symmetry. [https://psychedelicspotlight.com/why-do-we-see-geometric-visuals-when-we-](https://psychedelicspotlight.com/why-do-we-see-geometric-visuals-when-we-trip-on-psychedelics-heres-the-math/)
345 [trip-on-psychedelics-heres-the-math/](https://psychedelicspotlight.com/why-do-we-see-geometric-visuals-when-we-trip-on-psychedelics-heres-the-math/); <https://www.psypost.org/psychedelic-use-linked-to->

346 [increased-risk-of-unusual-visual-experiences/](#). This is consistent with the idea that the
347 functional organization of the striate cortex may be responsible for generating these
348 hallucinations. <https://doi.org/10.1162/089976602317250861>.

349

350 (Bio) (Mind) (Glottoregulation) The organization of body-mind, its mechanism and
351 central organ of control is built on the laryngeally controlled system of body musculature.
352 This is an entirely novel system which I would like to describe.

353

354 Bio) The reason for yawning is richly endowed with theories but so far was not
355 rigorously explained although it is a surprisingly simple behavior; it is no more than a
356 particular form of an otherwise common body behavior performed by the Upper Visceral
357 Body.

358

359 (Bio) (Physio) (Gender) The description and sources of differences in movements of
360 males and females. Apparently once the single key muscular setting is engaged as the
361 prime mover of body motions the appropriate types of movements of either gender are
362 produced.

363

364 (Bio) When development disrupts the orderly pancake-like layering of the earliest
365 division of body tissues these become rearranged and they mask certain systemic
366 characteristics of the body. During gastrulation the layers of basic tissues exoderm,
367 mesoderm and endoderm are distinct. Later on, each of the various layers undergo
368 divisions that shift in relation to each other and to those in other layers, somewhat like
369 those in the Rubik cube and the direct connections between certain parts are no longer
370 discernible. For instance, the fish gill derived branchiomic tissues in the head and heart
371 muscles have identical origins. The common origin of the **jaw** and the hyoid bone and the
372 bones in the middle ear are obscured. It is hard to imagine that the hypobranchial muscles
373 (from below the gills in the bodies of fish) develop into our facial and shoulder muscles.
374 But their connectivity can be found through glottoregulation and through yogic methods.
375 Under normal conditions these connections are hidden but while they are basic in some
376 type of Eastern meditation they are not usefully approached in Western psychology.

377

378 (Bio) (Physio) Mirroring is a tool active in many actions, not only in seeing and
379 duplicating adult behaviors by infants, etc. “Mirroring behavior, also known as
380 [behavioral mimicry](#), is our innate tendency to imitate the actions, expressions, or
381 mannerisms of those around us.” (<https://neurolaunch.com/mirroring-behavior/>).
382 Yawning, smiling, in response to others doing this as well as many other behaviors
383 belong to mirroring. It has not been recognized that learning to speak is mirroring of oral
384 actions through hearing them, and not simply a matter of trial and error as it is supposed.

385

386 (Bio) A confirmable explanation of the evolution of human bipedality. The numerous
387 theories offered overlook the simplest basis that it is derived from arboreal transport

388 combined with using branches as weapons, the latter seen in a primitive form in
389 chimpanzees.

390 (Bio) The demonstrable and testable uniformitarian hypothesis for the origin of bird
391 flight. Its derivation has nothing to do with wanting to be airborne, but rather from a leg
392 action. (*Wing motion of the arms is obvious in particular types of gesticulations, which*
393 *being so obvious has never been noted, e.g., breast stroke and butterfly stroke in*
394 *swimming.*) Theories about the Archeopteryx, aerodynamics, Cursorial vs. Arboreal
395 origins, the acrocoracohumeral ligament, which is a single ligament at the shoulder joint,
396 (cf. <https://www.sciencedaily.com/releases/2006/12/061218081421.htm>) have missed the
397 mark and have gotten no further than saying no more than that “Brown University and
398 Harvard University scientists created a 3-D model of a gliding pigeon, put alligators on a
399 treadmill, and examined rare Chinese fossils to better understand the evolution of flight.”
400 “What this means is that there were refinements over time in the flight apparatus of
401 birds.” Baier said. “Our work also suggests that when early birds flew, they balanced
402 their shoulders differently than birds do today. And so they could have flown differently.”
403 This is hardly an explanation of the origin of bird flight. The origin of flight has nothing
404 to do with flapping the arms, but with hind leg action, namely clawing, which is the chief
405 weapon of birds. I am ready to demonstrate the real explanation of avian flight built on
406 dinosaurian and bird behavior.

407

408 (Bio) The artist's eye – what is it? How it can be obtained by with potential capability.
409 When I found it for myself I suddenly understood the greatness of Cezanne. Persons with
410 graphic sense can make good use of the method.

411

412 (Bio) The source of insect flight-- is simply a case of something common among insects,
413 a mechanical vibrator for communicating which can be combined with attached wings.
414 Existing theories cover genes, source of wings derived from gills but go no further into
415 the flight behavior. The older hypothesis about tergal paranota or small extensions on the
416 sides of insects for parachuting has today rightly, though not completely, fallen out of
417 favor. Vibrators were and still are a chief communication device for insects. Kukalova-
418 Peck's work provides for the source of wings, cf.

419 (https://courses.washington.edu/danielab/labwiki/images/f/fe/Kukalova-Peck_1973.pdf)

420 The paranotal people were much too academically oriented to test the idea. I did, with
421 small models and found that immediately on release they fell rotating as any object would
422 without a gyroscope. I also found that adding cerci would allow directed flight, although
423 the paranotal theory had not mentioned this, nor was fossil evidence found.

424

425 (Meditation) In West we have at our disposal precise knowledge of anatomy and an exact
426 description of the mechanical musculoskeletal structure of the body, and therefore we can
427 join the two separate worlds, putting aside the usually vague instructions of the Eastern
428 traditions, and replace them with rigorous scientifically supported explanations of yogic
429 and meditative phenomena. This becomes possible when we carefully observe the
430 connectivity between mind and muscular behaviors within the body. That it is not beyond

431 our abilities to understand the inner workings of the body was expressed by the yogist
432 and scholar C. C. Chang in Evans-Wentz, W.Y.: Tibetan Yoga Oxford UP, 1958, p. xli. He
433 wrote: "a master of yoga can project his consciousness to each of the various organs and
434 parts of the body, and, independently of them, observe their innermost functionings. In
435 this way, yoga can undoubtedly contribute greatly to psychology and physiology in the
436 Occident, and ought therefore to receive scientific attention." In other words, exact
437 analysis of the body in meditative, that is, tranquil states can precisely reveal bodily parts,
438 locations and processes. This is supported by the fact that instructions in reflexology
439 define points on the surface of the body and of appendages that correctly relate to internal
440 organs. Knowledge of these connections could not have been simply guessed, they could
441 only have been discovered by seeing into the body. We should emphasize that one does
442 not necessarily need mastery of yoga to see the inner body, but only appropriate
443 instructions.

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445 History

446 (History) (Technology) The accidental invention of the wheel – the first credible and
447 testable hypothesis, without tying it to the potter's wheel or to transporting rocks
448 over rollers.

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