

1 The following topics by Gary S. Tong, are functions, processes and phenomena all of  
2 which with a few exceptions are governed by the single factor of glottoregulation thus  
3 the apparent complexity reduces to a few simple axiomatic elements, see line 46.

#### 4 Language

5 Currently linguistics has not introduced a single significant addition to the most  
6 elementary facts of speech, but the field can now be brought up-to-date.

7 (Lg) (Physio) Mirroring, the tool is present in many more actions than usually assumed,  
8 e.g., it serves infants to learn speech through hearing, not by imitation

9 (Lg) A rigorous proof of hard wiring of grammar that was advanced by N. Chomsky as  
10 Universal Grammar

11 (Lg) The general basis of articulation of language and of specific languages something  
12 that has never been known

13 (Lg) What is a syllable? It has been claimed impossible to define, but now it is finally  
14 available and it is far from what has intuitively been surmised

15 (Lg) The General Lingual Matrix (GLM) – a universal tool which systematizes  
16 grammar, vocabulary and cognition in language

17 (Lg) Tegulation, a fundamental process in speech production so far not noticed. Both the  
18 GLM and tegulation rigorously support Chomsky's Universal Grammar

19 (Lg) OTC or organic taxonomy of consonants: a novel physiological systematization  
20 of consonants and their interrelations so far not known

21 (Lg) The remarkable mechanism which produces all other phonemes from three  
22 essential phonemes by permutations using a 3x3 lingual matrix

23 (Lg) It is essential to know that the front and back parts of the tongue body alternate in  
24 all lingual functions, such as in syllable generation, in voicing, etc.

25 (Lg) (Physics) Linguistics has never employed a standard engineering tool, the center of  
26 mass to study synergistic forces in speech to understand complex muscular actions

27 (Lg) (Physiology) Cymatics and tegulation, two lingual wave mechanisms that rule  
28 language flow, structure and word creation

29 (Lg) The effect of climate on speech, rectification of an overblown paper by Ian  
30 Maddieson (<https://doi.org/10.1121/2.0000198>)

#### 31 Physics

32 (Physics) Linguistics has never employed a standard tool of engineering and physics,  
33 the center of mass to study synergistic forces in speech to understand complex muscular  
34 actions

35 Fundamental differences between the behaviors of the right and left bodies thus far  
36 unknown.

37 (Physics) (Mind) The center point and its surrounding (manifold) field – an engineering  
38 element essential in synergistic studies  
39 (Physics) (Mind and Body) Any movement is optimally comfortable and needs minimal  
40 bodily or mental exertion as long as it is anchored on its particular center of mass. This  
41 is the core anchoring employed by dancers, singers, and others that explains why they  
42 can continue without difficulties with breathing and movement.

### 43 Biology

44 (Bio) Glottoregulation – Exposition of a so far unknown axiomatic function underlying  
45 and regulating all body movements observable as body-mind organization and central  
46 control built on glottoregulation. The movement of this function, its track of muscle  
47 relaxation is and has never been understood to be the ch'i or prana.

48 (Bio) The kinetic aura – There is a projection of the body at a distance from the actual  
49 body. It is the setup frame for muscular projection of the body. Its position depends on  
50 how far the physical or mental action is outside the body and varies with age. For the  
51 younger person it lies in the front and moves to the back as we age, causing the faulty  
52 balance in the old).

53 (Bio) The cause of yawning – a coherent physiological explanation for the first time

54 (Bio) Odd versus even beats of rhythm have physiological bases and functions and  
55 relationship with right versus left feet.

56 (Biol) The only rigorous, demonstrable, and above all, testable hypothesis for the origin  
57 of bird flight

58 (Bio) Respiratory mechanics has five actions within the change of prime mover  
59 (between the three zones of breaching analogous toe gear switching).

60 (Biol) The source of insect flight – another first: a case of a mechanical sound vibrator  
61 combined with signaling appendages

62 (Bio) (Respiration) Breathing occurs in a three zone cycle that has not been known.  
63 Inhalation and exhalation do not simply alternate but perform actions that need be  
64 explained; the yoga master Sri Narayanananda mentions that in nasal breathing the  
65 dominance of left versus right alternate

66 (Biol) (Physio) (Monosoma) Bodily kinetic differences between the major racial  
67 ethnicities

68 (Bio) Development disrupts congruence of layers in gastrulation but it can be  
69 reconstructed through glottoregulation to reveal systemic behaviors of the body

70 (Bio) An original and confirmable uniformitarian hypothesis accounting for human  
71 bipedality whose sources still exist in two human and ape functions

72 (Biol) (Mind) Music and art – the synesthetic process – how sounds and sights engender  
73 sensations in the body and mind

- 74 (Bio) (Cognit) The tongue is both horizontally and axially divided into three parts each  
75 division reaching differently into articulation, into the mind and into cognition
- 76 (Biol) (Mind) (Physio) The Upper Visceral Body – a so far unrecognized organ system  
77 arising from vertebrate evolution
- 78 (Biol) (Physio) How talking that sounds normal can be taught to the deaf
- 79 (Bio) Unexpected behaviors in the conceptualization and lingual articulations of the  
80 numbers 3, 6, and 9, otherwise claimed by N. Tesla to be the key to the universe
- 81 (Biol) (Mind) The geometrical structure of the mind-body---geometry itself built into to  
82 the body and mind of humans and animals, cf. sports, billiards, archery, (and notably)  
83 the archer fish
- 84 (Bio) The visual geometry designed into sexual attraction and cognition `
- 85 (Biol) The artist's eye – what is it and how to generate it
- 86 (Bio) (Physio) (Gender) The chief musculoskeletal sources that differentiate the  
87 movements of human males and females (a clue: pectoralis minor!)
- 88 (Biol) (Monosoma) Why yogic or kinetic instructions by Asians for Europeans and vice  
89 versa are often misleading
- 90 (Bio) (Physio) Double count relates to walking, but what about triple count?? I figured it  
91 out!! Double starts on right side, triple on left!!!
- 92 (Bio) (Graphics) The trigger and action embedded in all body movement and its  
93 cognitive role in graphics such as handwriting and calligraphy (ascenders and descender,  
94 etc.)
- 95 Physiology
- 96 (Physio) The physiological function of alternation – a ubiquitous action of central  
97 control in the biological mechanism of human and other animals
- 98 (Physio) (Mind) (Evolution) Monosoma: all parts of body and mind constitute one  
99 physical and mental mechanism like the workings of a clock or of a computer system –  
100 with numerous examples, e.g, arms extended upwards open the palms, arms pointing  
101 down close the palms, crossing the eyes stops thinking, North Europe dance with  
102 pointed toes, Southern Europe and Asia dance flat footed, ethnic differences in topics of  
103 food, etc.
- 104 (Physio) The human perception of the geomagnetic poles never known before can now  
105 for the first time be demonstrated
- 106 (Physio) (Monosoma) (Mind) The three dermatomes of the head both anterior and  
107 posterior when isolated relate directly to three mental states: directed externally, serving  
108 attention and directed inwardly
- 109 (Physio) Abdominal and thoracic respiration in mind control is in part known in the  
110 West

- 111 (Physio) Why the ascenders and descenders in lettering and print first appearing in the  
112 Carolingian script are important with analogies in Asian scripts
- 113 (Monosoma) Hitting spoon or spatula against the edge of a pot after stirring: this is to  
114 clean the spatula but it will happen even after other movements other than stirring: this  
115 is a monosomatic reaction to the action of holding the utensil in a specific way
- 116 (Physio) (language) The ontology of speech in infants – supplanting the old and by now  
117 overworked McNeilage's frame/content theory
- 118 (Physio) The mechanism of feeding – a detailed account that was so far incompletely  
119 presented by research
- 120 (Physio) The thus far unknown h n m lingual nodes are the three centers of mass in the  
121 tongue that connect to physical and mental functions
- 122 (Physio) Gesticulation – Why gesticulation exists and its role in speech production. Cf,  
123 animal mouth opening changes in vocalizing.
- 124 (Physio) (Ergonomics) (Cognition) – Glottoregulation and use of the geomagnetic field  
125 to ergonomically assists movements of the body
- 126 (Physio) Triplicities in the body and mind – it was never reported that a great many (at  
127 least 150) organs and tissues are tripartite, an organization that also appears in cognition
- 128 (Physio) Why do we enjoy rhymes? It is rooted in cognition and facial musculature.
- 129 Mind, meditation
- 130 (Mind) (Biol) Combination of the elements of Western and Eastern sciences are  
131 mutually complementing – Western science can supply scientifically supported  
132 explanations of many established yogic and meditative behaviors and can enable bodily  
133 and mental control with exactitude
- 134 (Mind) also belong here other functions appearing in this list  
135
- 136 Technology
- 137 (History) (Technology) The accidental invention of the wheel, contrasting with the usual  
138 assumption that it was a conscious act