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

6 Language

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

9 (Lg) (Pysiol) Mirroring: the tool is present in many more actions than usually assumed;
10 for example, it enables infants to learn speech through hearing, not by imitation.

11 (Lg) A rigorous proof of the hard wiring of grammar, as advanced by N. Chomsky in
12 Universal Grammar.

13 (Lg) The general basis of articulation of language and of specific languages—something
14 that has never been known.

15 (Lg) What is a syllable? It has been claimed to be impossible to define, but a definition is
16 now finally available, and it is far from what has intuitively been assumed.

17 (Lg) The General Lingual Matrix (GLM)—a universal tool that systematizes grammar,
18 vocabulary, and cognition in language.

19 (Lg) Tegulation, a fundamental process in speech production so far unnoticed. Both the
20 GLM and tegulation rigorously support Chomsky's Universal Grammar.

21 (Lg) OTC, or Organic Taxonomy of Consonants: a novel physiological systematization of
22 consonants and their interrelations, previously unknown.

23 (Lg) The remarkable mechanism that produces all other phonemes from three essential
24 phonemes by permutation using a 3×3 lingual matrix.

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

27 (Lg) (Physics) Linguistics has never employed a standard engineering tool—the center of
28 mass—to study synergistic forces in speech and to understand complex muscular actions.

29 (Lg) (Physiology) Cymatics and tegulation: two lingual wave mechanisms that govern
30 language flow, structure, and word creation.

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

33 (Lg) The ubiquitous errors across different ethnicities, each with distinct bodily
34 organization affecting cognition and physiology related to language.

35 Physics

36 (Physics) Linguistics has never employed a standard tool of engineering and physics—
37 the center of mass—to study synergistic forces in speech and to understand complex
38 muscular actions.

39 Fundamental differences between the behaviors of the right and left bodies, thus far
40 unknown.

41 (Physics) (Mind) The center point and its surrounding (manifold) field—an engineering
42 element essential in synergistic studies.

43 (Physics) (Mind and Body) Any movement is optimally comfortable and requires
44 minimal bodily or mental exertion as long as it is anchored in its particular center of
45 mass. This core anchoring explains how dancers, singers, and others can continue without
46 difficulty in breathing and movement.

47 **Biology**

48 (Biol) Glottoregulation: exposition of a previously unknown axiomatic function
49 underlying and regulating all body movements, observable as body–mind organization
50 and central control. The movement of this function—its track of muscle relaxation—has
51 never been understood as ch'i or prana.

52 (Biol) The cause of yawning—a coherent physiological explanation for the first time.

53 (Biol) Odd versus even beats of rhythm have physiological bases and functions and relate
54 to right versus left feet.

55 (Biol) The only rigorous, demonstrable, and testable hypothesis for the origin of bird
56 flight.

57 (Biol) Respiratory mechanics comprise five actions within a change of prime mover
58 (between three zones of breathing), analogous to gear switching.

59 (Biol) The source of insect flight—another first: a mechanical sound vibrator combined
60 with signaling appendages.

61 (Biol) (Respiration) Breathing occurs in a three-zone cycle previously unknown.

62 Inhalation and exhalation do not simply alternate but perform distinct actions that require
63 explanation; the yoga master Sri Narayanananda notes that in nasal breathing, left–right
64 dominance alternates.

65 (Biol) (Physiol) (Monosoma) Bodily kinetic differences among major racial and ethnic
66 groups.

67 (Biol) Development disrupts congruence of layers in gastrulation, but this can be
68 reconstructed through glottoregulation to reveal systemic bodily behaviors.

69 (Biol) An original and confirmable uniformitarian hypothesis accounting for human
70 bipedality, whose sources still exist in two human and ape functions.

71 (Biol) (Mind) Music and art—the synesthetic process: how sounds and sights engender
72 sensations in body and mind.

73 (Biol) (Cognit) The tongue is divided both horizontally and axially into three parts, each
74 reaching differently into articulation, the mind, and cognition.

75 (Biol) (Mind) (Pysiol) The Upper Visceral Body—a previously unrecognized organ
76 system arising from vertebrate evolution.

77 (Biol) (Pysiol) How talking that sounds normal can be taught to the deaf.

78 (Biol) Unexpected behaviors in the conceptualization and lingual articulation of the
79 numbers 3, 6, and 9, otherwise claimed by N. Tesla to be the key to the universe.

80 (Biol) (Mind) The geometrical structure of the mind–body: geometry built into human
81 and animal bodies and minds (cf. sports, billiards, archery, and notably the archer fish).

82 (Biol) The visual geometry designed into sexual attraction and cognition.

83 (Biol) The artist's eye—what it is and how to generate it.

84 (Biol) (Pysiol) (Gender) The chief musculoskeletal sources differentiating male and
85 female movement in humans (a clue: pectoralis minor).

86 (Biol) (Monosoma) Why yogic or kinetic instructions by Asians for Europeans, and vice
87 versa, are often misleading.

88 (Biol) (Pysiol) Double count relates to walking—but what about triple count? Double
89 starts on the right side; triple on the left.

90 (Biol) (Graphics) The trigger and action embedded in all body movement and their
91 cognitive role in graphics such as handwriting and calligraphy (ascenders and
92 descenders).

93 **Physiology**

94 (Pysiol) The physiological function of alternation—a ubiquitous action of central control
95 in biological mechanisms.

96 (Pysiol) (Mind) (Evolution) Monosoma: all parts of body and mind constitute one
97 physical and mental mechanism, like a clock or computer system, with numerous
98 examples.

99 (Pysiol) The human perception of the geomagnetic poles, never known before, can now
100 be demonstrated.

101 (Pysiol) (Monosoma) (Mind) The three dermatomes of the head, anterior and posterior,
102 when isolated relate directly to three mental states: externally directed, attentional, and
103 inwardly directed.

104 (Pysiol) Abdominal and thoracic respiration in mind control are partially known in the
105 West.

106 (Pysiol) Why ascenders and descenders in lettering and print—first appearing in the
107 Carolingian script—are important, with analogies in Asian scripts.

108 (Monosoma) Striking a spoon or spatula against the edge of a pot after stirring: although
109 intended to clean the utensil, it occurs even after other movements and represents a
110 monosomatic reaction to holding the utensil in a specific way.

111 (Pysiol) (Language) The ontology of infant speech—supplanting the old and overworked
112 McNeilage frame/content theory.

113 (Pysiol) The mechanism of feeding—a detailed account previously presented only
114 incompletely.

115 (Pysiol) The previously unknown H, N, and M lingual nodes: three centers of mass in the
116 tongue connecting physical and mental functions.

117 (Pysiol) Gesticulation—why it exists and its role in speech production (cf. mouth opening
118 in animal vocalization).

119 (Pysiol) (Ergonomics) (Cognition) Glottoregulation and use of the geomagnetic field to
120 ergonomically assist bodily movement.

121 (Pysiol) Triplicities in body and mind: at least 150 organs and tissues are tripartite, an
122 organization also appearing in cognition.

123 (Pysiol) Why we enjoy rhymes—rooted in cognition and facial musculature.

124 **Mind, Meditation**

125 (Mind) (Biol) Western and Eastern sciences are mutually complementary: Western
126 science can provide experimentally supported explanations of yogic and meditative
127 practices and enable precise bodily and mental control.

128 (Mind) Other functions appearing in this list also belong here.

129 Technology

130 (History) (Technology) The accidental invention of the wheel, contrasting with the
131 common assumption that it was a conscious act.

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