COLLECTED PAPERS (26 May, 2019)
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## Cambridge Papers

1951: Editor of "Cambridge Mountaineering" Number for 1951. Pp. 88. Biggleswade, C.Elphick. Including an article "The Longest Day",A Poem, Club Notes, a list of Members, etc.

1956: A visit to the Red Sea. The Eagle (Magazine of St John's College, Cambridge) vol, 57, No.248, Pp. 21-24.
Reprint Nos.

1. 1951 Occurrence of Asparagopsis armata Harv. on the Scilly Isles. Nature, 167, 732-734.
2. 1952 Birds on Palma and Gomera. Ibis, $\underline{94}, 68-84$. Results of a survey on these islands.
3. 1953 An action potential from the motor nerves of the jellyfish Aurellia aurita Lamarck. Nature, 171, 400.
4. 1954 Observations on the nerve fibres of Aurellia aurita. Quart. J. Micr. Sci. 95, 85-92.
5. $1954 \quad$ The nerves and muscles of medusae. I. Conduction in the nervous system of Aurellia aurita Lamarck. J. exp. Biol. 31, 594-600.
6. $1955 \quad$ The nerves and muscles of medusae. II. Geryonia proboscidalis Eschscholtz. J. exp. Biol. 32, 555-568.
7. 1955 The nerves and muscles of medusae. III. A decrease in the refractory period following repeated stimulation of the muscle of Rhizostoma pulmo. J. $\exp$ Biol. 32, 636-641.
8. 1955 The nerves and muscles of medusae. IV. Inhibition in Aequorea forskalea. J. exp. Biol. 32, 642-648.
9. 1956 The nerves and muscles of medusae. V. Double innervation in Scyphozoa. J. exp. Biol. 33, 366-383.
10. 1956 A polarized-light study of glass-fibre laminates. Brit. J. Applied Physics. $\underline{6}$, 314-319.
11. 1956 The nervous system of the ephyra larva of Aurellia aurita. Quart. J. Micr. Sci. 97. 59-74.
12. 1956 The responses of Heteroxenia (Alcyonaria) to stimulation and to some inorganic ions. J. exp. Biol. 33, 604-614.
13. 1956 A through-conduction system co-ordinating the protective retraction of Alcyonium (Coelenterata). Nature, 178, 1476-1477.
14. 1956 The flight of very small insects. Nature, 178, 1334-1335.
15. 1957 The co-ordination of the protective retraction of coral polyps. Phil. Trans.
R. Soc. B.240, 495-529.
16. 1957 Responses of Cerianthus (Coelenterata). Nature, 180, 1369-1370.
17. 1958 The co-ordination of the responses of Cerianthus (Coelenterata). J. exp.

Biol. 35, 369-382.
18. 1957 (with H. Broch)

A new species of Solenopodium (Stonolifera, Octocorallia) from the Red Sea. Proc. Zool. Lond. 128/2, 149-160.
19. 1958 Transmission of excitation through the ganglia of Mya (Lamellibranchiata). J. Physiol. 143, 553-572.
20. 1959 The nerves and muscles of medusae. VI. The rhythm.
J. exp. Biol. 36, 72-91.

## St Andrews papers

21. 1959 Analysis of the rapid responses of Nereis and Harmothoe (Annelida). Proc. R. Soc. Lond. B.150, 245-262.
22. $1960 \quad$ Pitch discrimination in Orthoptera (Insecta) demonstrated by responses of central auditory neurones. Nature, 185, 623-624.
23. 1961 The centrally determined sequence of impulses initiated from a ganglion of the clam Mya. J. Physiol. 155, 320-336.
24. 1961 Pitch discrimination in locusts. Proc. R. Soc. Lond. B. 155, 218-231.
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Nature, 186, 650.
26. 1961 The organization of the primitive central nervous system as suggested by examples of inhibition and the structure of neuropile. Reprinted from "Nervous Inhibition". Ed. E. Florey. Pergamon Press.
27. 1962 Learning of leg position by headless insects.

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28. 1962 Naked axons and symmetrical synapses in an elementary nervous system.

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29. 1962 An annelid proprioceptor. Nature, 195, 403.
30. 1962 Learning of leg position by the ventral nerve cord in headless insects. Proc.
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31. 1962 (with B.M. MacKay)

Naked axons and symmetrical synapses in coelenterates. Quart. J. Micr. Sci. 103, 531-541.
32. 1963 Proprioceptors, bristle receptors, efferent sensory impulses, neurofibrils and number of axons in the parapodial nerve of the polychaete Harmothoe. Proc. R. Soc. 157, 199-222.
33. 1963 Comparative physiology: Integrative action of the nervous system. Ann. Rev. Physiol. 25, 523-544.
34. 1964 Non-specific systems and differences between neurons in lower animals in "Comparative Neurochemistry". Ed. S. Richter, Pergamon Press.
35. 1964 (with J.M. Armson)

An investigation of Factor S of Crustacea, J. Neurochem. 11, 387-395.
36. 1964 Multimodal interneurones of locust optic lobe.

Nature, 204, 499-500.
37. 1964 Presumed photoreceptive cilia in a ctenophore.

Quart. J. Micr. Sci. 105, 311-317.
38. 1964 (with R.A. Chapman)

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40. 1964 (with D.C. Sandeman)

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43. 1965 (with J.W.P. Barnes)

A neuropharmocologically active substance from jellyfish ganglia. J. exp. Biol. 42, 257-287.
44. 1965 Non-motile sensory cilia and neuromuscular junctions in a ctenophore independent effector organ. Proc. R. Soc. B. 162, 333-350.
45. 1965 Macrocilia with numerous shafts from the lips of the ctenophore Beroe. Proc. R. Soc. B. 162, 351-364.
46. 1965 (with T.H. Bullock)
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47. 1965 (with J.H. Scholes, S. Shaw and J. Tunstall)

Extracellular recordings from single neurones in the optic lobe and brain of the locust in "The Physiology of the Insect Central System". Ed. J.E. Treherne and J.S.C. Beament.
48. 1965 (with D.J. Rutherford)

The rhabdom of the lobster eye. Quart. J. Micr. Sci. 106, 119-130.
49. 1965 (with P.B.T. Barnard)

Movement of palisade in locust retinula cells when illuminated. Quart. J. Micr. Sci. 106, 131-135.
50. 1965 The electrophysiological approach to learning in isolatable ganglia. Animal behaviour, Suppl. I, 163-182.
51. 1965 Relations between nerves and cilia in ctenophores. Amer. Zool. 5, 357375.
52. 1965 A direct response of the crab Carcinus to the movement of the sun. Nature, Lond. 207, 1413-1414.
53. 1966 Some recently discovered underwater vibration receptors in invertebrates, in "Some Contemporary Studies in Marine Science", pp. 395-405. Ed. H. Barnes, Allen \& Unwin, Lond.
54. 1966 Pathways of co-ordination in ctenophores. Symp. Zool. Soc. Lond. No.16, pp. 247-266. Academic Press, London and New York.

551966 (with P.R.B. Shepheard)
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60. 1966 Direct response of the crab Carcinus to the movement of the sun. J. exp.

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61. 1966 Adaptation and other phenomena in the optokinetic response of the crab

Carcinus. J. exp. Biol. 44, 285-295.
62. 1966 (with J. Hamori)

The lobster optic lamina. I. General organization. J. Cell Sci. 1, 249-256.
63. 1966 (with J. Hamori)

The lobster optic lamina. II. Types of synapses. J. Cell Sci. $\underline{1}$, 257-270.
64. 1966 (with J. Hamori)

The lobster optic lamina. III. Degeneration of retinula cell endings. J. Cell Sci. 1, 271-274.
65. 1966 (with J. Hamori)

The lobster optic lamina. IV. Glial cells. J. Cell Sci. 1, 275-280.
66. 1966 Study of a system as illustrated by the optokinetic response. Symp. Soc. exp. Biol. 20, 179-198.
67. 1966 The retina of the locust, in "Symposium on the Compound Eye". Ed. C.G. Bernhard. Pergamon Press, 1966, 513-541.
68. 1966 The optomotor response of the crab Carcinus, pp. 57-74, in "Proc. Symp. Information Processing in Sight Sensory Systems". Cal. Tech. Pasadena, 1965.
69. $1967 \quad$ (with J. Tunstall)

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70. $1967 \quad$ Perception of polarization plane, colour and movement in two dimensions by the crab Carcinus. Zeit. vergl. Physiol. 55, 207-224.
71. 1967 (with R.R. Bennett \& J. Tunstall)

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72. 1967 (with S. Boulton)

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73. 1967 Position of onset of fast phase in optokinetic nystagmus. Nature, 216, 10041005.
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75. 1968 (with J. Hamori)

Synaptic organization of the lobster optic lamina. Symp. on Neurobiology of Invertebrates 1967. 111122. Publ. Hungarian Acad. of Sciences.
76. 1969 The interpretation of behaviour in terms of interneurons, in "The Interneuron", Proceedings of a conference sponsored by the Brain Research Institute, Los Angeles, 1967. Ed. M.A.B. Brazier, 1-20.
77. 1968 Primitive examples of gravity receptors and their evolution. Symposium held by the Space Research Council of the USA on Gravity and the Organism. Ed. M.J. Cohen. New York, pp. 203-221.
78. 1968 The origins of the nervous system. In: "Structure and Function of the Nervous System". Ed. G.H. Bourne, 1-31.
79. 1968 Some recent physiological results of interest to Marine Biologists. Special Lecture. Rep. Chall. Soc. 3, 35-37.
80. 1968 Affinity of neurons in regeneration. Nature, 219, 737-740.
81. 1968 (with M. Burrows)

The action of the eyecup muscles of the crab, Carcinus, during optokinetic movement. J. exp. Biol. 49, 223-250.
82. 1968 (with M. Burrows)

Motoneuron discharges to the eyecup muscles of the crab Carcinus, J. exp. Biol. 49, 251-267.
83. 1968 (with M. Burrows)

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84. 1968 (with M. Burrows)

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89. 1968 Pigment movement and the crystalline threads of the firefly eye. Nature.

218, 778-779.
90. 1968 A note on the number of retinula cells of Notonecta. Z. vergl. Physiol. 61,

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91. 1969 Statocysts of medusae and evolution of stereocilia. Tiss. \& Cell, $\underline{1}$, 341-
353.
92. $1969 \quad$ (with J. Barnes)

Interaction of the movements of the two eyecups in the crab Carcinus. J. exp. Biol. 50, 651-671.
93. 1969 (with J. Barnes)

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94. 1969 (with S. Tamm)

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95. $1969 \quad$ Unit studies of the retina of dragonflies. Z. vergl. Physiol. 62, 1-37.
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97. 1970 (with B. Walcott \& A.C. Ioannides)

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98. 1970 (with I.A. Meinertzhagen)

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101. 1971 Biological Systems. Chapter 8 in "Information, Computers, Machines and Man". Ed. R.M. Huey.
102. 1971 The Crab Eye. Chapter 21 in "Information, computers, Machines and Man".

Ed. R.M. Huey.
103. 1971 Integration in nervous systems. Chapter 3, V. 3 of "Handbook of

Perception". Ed. E.C. Carterette and M.P. Friedman. New York. Academic Press.

## Canberra papers

104. 1971 (with C. Giddings)

The ommatidium of the termite Mastotermes darwiniensis. Tiss \& Cell, $\underline{3}, ~ 463-476$.
105. 1971 (with B. Walcott)

The compound eye of Archichauliodes (Megaloptera). Proc. R. Soc. B. 179, 65-72.
106. 1971 (with C. Giddings)

Movement on dark-light adaptation in beetle eyes of the neuropteran type. Proc. R. Soc. B. 179, 7385.
107. 1971 (with C. Giddings)

The retina of Ephestia (Lepidoptera). Proc. R. Soc. B. 179, 87-95.
108. 1971 Alternatives to superposition images in clear-zone compound eyes. Proc.
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109. 1971 (with P.M. Shelton and I.A. Meinertzhagen)

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110. 1971 (with S.B. Laughlin)

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111. 1972 (with B.W. Ninham and M.O. Diesendorf)

Theory of the summation of scattered light in clear-zone compound eye. Proc. R. Soc. B. 181, 137156.
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113. 1972 Constancy of neurons, precision of connectivity patterns and specificity as a product of neuron differentiation in invertebrates, in "Cell Interactions", proceedings of the 3rd Lepetit Colloquium, London, 1971. Ed. L.G. Silvestri. North Holland. 14-30.
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## 115. 1972 (with A.W. Snyder)

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Muscatine. Academic Press.
117. 1973 (with M.O.Diesendorf)

Two models of the partially focused clear zone compound eye. Proc. R. Soc. B. 183, 141-158.

## 118. 1973 (with R.G. Butler)

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Univ. Press.
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The organization of visual fields in the hemipteran acone eye. Proc. R. Soc. Lond. B. 190, 373-391.
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139. 1977 (with Y. Tsukahara \& D. Stavenga)

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Miniature potentials, light adaptation and afterpotentials in locust retinula cells. J. exp. Biol. 68, 137-150.
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