

PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

Intraneural Society, Cambridge, Massachusetts  
Dec. 4, 1958

M. A. B. Brazier, Russian neurophysiology (invited)

Amsterdam University, Netherlands (Sponsored by Biological and Medical Physics  
Departments)  
Dec. 9, 1958

W. S. McCulloch, Mathematical considerations with respect to the central nervous  
system (invited)

Physics Colloquium, Western Reserve University, Cleveland (Sponsored by American  
Association of Physics Teachers and American Institute of Physics)  
Dec. 10, 1958

M. W. P. Strandberg, Problems in paramagnetic spin-lattice relaxation (invited)

Groningen University, Netherlands (Sponsored by Neuro-Psychiatry Department)  
Dec. 11, 1958

W. S. McCulloch, Probabilistic logic (invited)

Cleveland Physics Society, Cleveland (Sponsored by American Association of Physics  
Teachers and American Institute of Physics)  
Dec. 11, 1958

M. W. P. Strandberg, Physical problems encountered in solid-state amplifiers  
(invited)

Symposium on Magnetic Field Distribution in Thermonuclear Research, Gatlinburg,  
Tennessee  
Dec. 11-12, 1958

D. R. Whitehouse, Synthesis of inhomogeneous magnetic fields

Catholic University, Washington, D. C.  
Dec. 15, 1958

U. Ingard, Member of panel discussion on acoustics in Russia (invited)

Boston Society of Psychiatry and Neurology  
Dec. 18, 1958

J. S. Barlow, Geographic distribution of multiple sclerosis and cosmic-ray  
intensities (invited)

Thirty-third Annual Meeting, Linguistic Society of America, New York  
Dec. 29-31, 1958

J. R. Applegate, Speech development and impairment: A case study

MEETING PAPERS PRESENTED (continued)

M. Halle, On the nature and ordering of certain phonological rules in contemporary Russian

R. B. Lees, Families of nominalization transformations in English

E. H. Lenneberg, The biological matrix of speech

G. H. Matthews, The plural morpheme in Crow

International Symposium on Communication and Language, Paris  
Jan. 22-25, 1959

W. A. Rosenblith, Expérimentation sur la capacité d'intégrer l'information pour des stimuli sensoriels simples chez l'homme (avec une extension possible sur ce thème au problème de la communication verbale)

Sorbonne (Neurophysiological Colloquium, 3rd Cycle), Paris  
Jan. 23, 1959

W. A. Rosenblith, The use of electronic computers in the study of neurophysiological problems (invited)

Sorbonne (Chaire de Psychophysiologie), Paris  
Jan. 23, 1959

W. A. Rosenblith, Bases physiologiques des théories de l'audition (invited)

Faculté de Médecine, Bordeaux, France  
Jan. 26, 1959

W. A. Rosenblith, Études de l'activité électrique du système auditif (invited)

Faculté des Sciences (Société Française de Physique, Société de Biologie de Marseilles),  
Marseilles, France  
Jan. 28. 1959

W. A. Rosenblith, L'emploi des machines à calculer électroniques dans l'étude des phénomènes neurophysiologiques (invited)

American Association of Physics Teachers Meeting, New York  
Jan. 28-31, 1959

S. C. Brown, Report on fusion research given at Second International Conference on the Peaceful Uses of Atomic Energy, Geneva, 1958 (invited)

Annual Meeting, American Physical Society, New York  
Jan. 28-31, 1959

A. C. Melissinos, Determination of the dipole moment and isotope shift of radioactive Hg<sup>197</sup> by "double resonance"

MEETING PAPERS PRESENTED (continued)

Cambridge University (Psychological and Physiological Laboratories), Cambridge, England  
Feb. 3, 1959

W. A. Rosenblith, Problems in the quantification of the electrical activity of the nervous system (invited)

IRE, Philadelphia Section, 1959 Lecture Series on Modern Communications, University of Pennsylvania, Philadelphia  
Feb. 9, 1959

R. M. Fano, Coding theory

University of Rochester (Sponsored by American Institute of Physics, Visiting Scientists Program in Physics), Rochester, New York  
Feb. 20, 1959

M. W. P. Strandberg, Physical problems encountered in solid-state amplifiers (invited)

Biophysical Society Second Annual Meeting, Pittsburgh  
Feb. 25-27, 1959

M. H. Goldstein, Jr., A model for relating responses recorded by gross electrodes to activity of neural units

J. W. Kuiper, The optics of the superposition eye

W. T. Peake, M. H. Goldstein, Jr., and N. Y-S. Kiang, Effect of stimulus repetition rate on auditory nerve potentials

T. Sandel, T. Weiss, and C. E. Molnar, Statistical analyses of evoked electrocortical activity

T. Weiss, Some statistics of the electroencephalogram, with emphasis upon autocorrelation

Winter Meeting, Eastern Association of Electroencephalographers, Ste. Marguerite, P.Q., Canada  
Feb. 26-March 1, 1959

J. S. Barlow and Margaret Z. Freeman, Comparison of EEG activity recorded from different locations on the scalp by means of autocorrelation and crosscorrelation analysis

JOURNAL ARTICLES ACCEPTED FOR PUBLICATION

(Reprints, if available, may be obtained from the Document Room, 26-327, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.)

E. J. Baghdady, Signal-cancellation techniques for capturing the weaker of two cochannel FM signals (Proc. Radio Wave Propagation Symposium, Liège, Oct. 6-11, 1958)

## JOURNAL ARTICLES ACCEPTED FOR PUBLICATION (continued)

- G. Bekefi and S. C. Brown, Collision cross section and energy loss of slow electrons in hydrogen (Phys. Rev.)
- D. L. Bobroff and H. A. Haus, Orthogonality of modes of propagation in electronic waveguides (Proc. Symposium on Electronic Waveguides, April 1958)
- R. W. Fessenden and J. S. Waugh, Strong coupling in nuclear resonance spectra. I. The five-spin system of trans-propenylbenzene (J. Chem. Phys.)
- W. S. McCulloch, Agathe Tyche: Of nervous nets – the lucky reckoners (Proc. Symposium on The Mechanization of Thought Processes)
- R. E. Nelson, Point-contact diodes in terms of p-n junction theory (Trans. IRE, PGED)
- S. Saito, New method of measuring the noise parameters of the electron beam, especially the correlation between its velocity and current fluctuations (Trans. IRE, PGED)
- M. P. Schützenberger and R. C. Marcus, Full decodable code-word sets (Trans. IRE, PGIT)

## LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- S. A. Collins, Jr., R. L. Kyhl, and M. W. P. Strandberg, Spin-lattice relaxation from state of negative susceptibility (Phys. Rev.)

## TECHNICAL REPORTS PUBLISHED

(These and previously published technical reports, if available, may be obtained from the Document Room, 26-327, Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.)

- 329 L. S. Onyshkevych, Analysis of circuits with multiple-hole magnetic cores

## SPECIAL PUBLICATIONS

- W. S. McCulloch, The stability of biological systems (Homeopathic Mechanisms, Brookhaven Symposia in Biology No. 10)

