PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

Department of Neuroanatomy, University of Oslo, Oslo, Norway
Aug. 27, 1959

W. S. McCulloch, Infallible circuits of fallible neurons (invited)

Annual Meeting, Association for Computing Machinery, Massachusetts Institute of Technology
Sept. 1-4, 1959

J. McCarthy, LISP: A programming system for manipulating symbolic expressions

Third International Congress on Acoustics, Stuttgart, Germany
Sept. 1-8, 1959

M. H. Goldstein, Jr., N. Y-S. Kiang, and W. T. Peake, Interpretation of responses to repetitive acoustic stimuli

U. Ingard, The influence of fluid motion past a boundary on sound reflection, absorption, and transmission

W. T. Peake, N. Y-S. Kiang, and M. H. Goldstein, Jr., Responses of the auditory nerve to repetitive acoustic stimuli

K. N. Stevens, C. G. Bell, J. M. Heinz, and G. Rosen, An approach to speech analysis by a digital computer

International Conference for Standards on a Common Language for Machine Searching and Translation, Cleveland, Ohio
Sept. 6-12, 1959

V. H. Yngve, In defense of English

Conference on Molecular Spectroscopy, Bologna, Italy
Sept. 7-12, 1959

J. S. Waugh, The analysis of nuclear resonance spectra

American Physiological Society Meeting, Urbana, Illinois
Sept. 8-11, 1959

N. Y-S. Kiang, W. T. Peake, and M. H. Goldstein, Jr., Electrical responses of the auditory nerve to repetitive acoustic stimuli

Institute for Theoretical and Nuclear Physics, Naples, Italy
Sept. 10, 1959

W. S. McCulloch, Infallible circuits of fallible neurons (invited)
MEETING PAPERS PRESENTED (continued)

ONR Information Systems Seminar, Washington, D.C.  
Sept. 14, 1959

N. Chomsky, Grammar and automata (invited)

Conference on Quantum Electronics, Bloomingburg, New York  
Sept. 14-16, 1959

M. W. P. Strandberg, Analytic design of parametric amplifiers (invited)

Department of Neurology, University of Groningen, Groningen, Netherlands  
Sept. 29, 1959

W. S. McCulloch, Infallible circuits of fallible neurons (invited)

IRE, Long Island Section Meeting, Garden City, New York  
Oct. 1, 1959

W. A. Rosenblith, The electrical activity of the nervous system (invited)

Faculté des Sciences, Colloque sur l'étude neurophysiologique et électroencéphalo-
graphique des hypoxies et anoxies cérébrales aigües, Marseilles, France  
Oct. 5-9, 1959

M. A. B. Brazier, The EEG in open-heart surgery and in surgery for aortic and cerebral aneurysms (invited)

Sixth National Symposium of the American Vacuum Society, Philadelphia, Pennsylvania  
Oct. 6-9, 1959

J. P. Reames, Cathodoluminescence of evaporated ZnS-Mn films

Medical Physics Group, University of Amsterdam, Amsterdam, Netherlands  
Oct. 7, 1959

W. S. McCulloch, Infallible circuits of fallible neurons (invited)

AEC Sherwood Program Meeting, Los Alamos, New Mexico  
Oct. 12-13, 1959

G. Bekefi, Research in the Plasma Physics Group at M.I.T. (invited)

University of Colorado Medical School, Denver, Colorado (Series of five lectures as Visiting Professor of Biophysics and Psychiatry)  
Oct. 12-14, 1959

W. A. Rosenblith, Information theory and human sensory performance – The quantification of the electrical activity of the nervous system: (i) Evoked responses to sensory stimuli; (ii) The electroencephalogram
The packaging of sensory displays; the role of time in information handling

Model-making in the area of brain function

Twelfth Annual Gaseous Electronics Conference, Washington, D.C.
Oct. 14-16, 1959

J. L. Hirshfield and G. Bekefi, Cyclotron radiation from plasmas

University of California Medical Center, Seminar Series on the Application of Computer Techniques and Communications Engineering to Brain Study, Los Angeles, California
Oct. 21, 1959

M. A. B. Brazier, The use of computers in studies on EEG records (invited)

Fifty-eighth Meeting, Acoustical Society of America, Cleveland, Ohio
Oct. 22-24, 1959

C. G. Bell, F. Poza, and K. N. Stevens, Formant tracking by computer

O. Fujimura, Some characteristics of stop consonants

D. M. Green, Detection of a pulsed sinusoid of uncertain frequency

G. Rosen, Fricative production by a dynamic analog synthesizer

IRE 1959 Electron Devices Meeting, Washington, D.C.
Oct. 29-30, 1959

W. D. Jackson, R. B. Martindale, P. R. Metz, and R. E. Nelson, Some implications of small-signal admittance measurements on microwave rectifiers

Lincoln Laboratory Colloquium, Massachusetts Institute of Technology
Nov. 3, 1959

W. A. Rosenblith, Colloquium on the quantitative assessment of the electrical activity of the nervous system (invited)

University of California Medical Center, Seminar Series on the Application of Computer Techniques and Communications Engineering to Brain Study, Los Angeles, California
Nov. 11, 1959

W. A. Rosenblith, Some quantifiable aspects of the electrical activity of the nervous system (invited)

University of California, Psychology Colloquium, Los Angeles, California
Nov. 11, 1959

W. A. Rosenblith, Electrophysiological responses to sensory stimuli (invited)
MEETING PAPERS PRESENTED (continued)

Sixteenth National Meeting, Operations Research Society of America, Pasadena, California
Nov. 11-13, 1959

R. A. Howard, Dynamic programming of continuous-time decision processes

The Interdisciplinary Program in the Basic Sciences Related to the Nervous System and Mental Functions, Albert Einstein College of Medicine, Yeshiva University, New York
Nov. 13, 1959

W. S. McCulloch, In quest of the logos (invited)

Conference on Magnetism and Magnetic Materials, Detroit, Michigan
Nov. 16-19, 1959

F. R. Morgenthaler, On the theory of ferromagnetic resonance in small ferrimagnetic ellipsoids

IRE Professional Group on Nuclear Sciences Conference, Boston, Massachusetts
Nov. 19, 1959

G. Bekefi and S. C. Brown, Microwave plasma diagnostics

Northeast Electronics Research and Engineering Meeting, Commonwealth Armory, Boston, Massachusetts
Nov. 19, 1959

P. E. Gray, R. E. Nelson, and J. Blair, Thermoelectric temperature control of electronic components

Institute of Oceanography, Woods Hole, Massachusetts
Nov. 30, 1959

J. W. Kuiper, The function of the lateral line organ (invited)

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.)

J. R. Applegate, The M. I. T. language laboratory (Educ. Screen)

R. S. Badessa, R. L. Kent, J. C. Nowell, and C. L. Searle, A Doppler-cancellation technique for determining the altitude dependence of gravitational red shift in an earth satellite (Proc. IRE)

E. J. Baghdady, FM interference and noise-suppression properties of the oscillating limiter (Trans. IRE, PGVC)
E. J. Baghdady, The design of communication systems (Trans. IRE, PGCS)


M. Eden, A note on error detection in noisy logical computers (Information and Control)

P. Elias, Coding and information theory (Revs. Modern Phys.)

M. H. Goldstein, Jr., A statistical model for interpreting neuroelectric responses (Information and Control)

T. Kailath, Correlation detection of signals perturbed by a random channel (Trans. IRE, PGIT)


H. R. Maturana, The fine anatomy of the optic nerve of anurans. An electron microscope study (J. Cytology)

I. L. Morris and A. L. Loeb, A binary algebra describing crystal structures with closely packed anions. Part II. A common system of reference for cubic and hexagonal structures (Acta Cryst.)

F. W. Noble, J. E. Hayes, and M. Eden, Analog computer for analysis of sums of distribution functions (Trans. IRE, PGME)

M. Peter, H. G. R. Venkates, and M. W. P. Strandberg, Molecular trajectories in electric fields and state selection in a beam of sodium chloride (J. Appl. Phys.)


M. W. P. Strandberg, Unidirectional paramagnetic amplifier design (Proc. IRE)

H. G. Venkates and M. W. P. Strandberg, Operating characteristics of a molecular-beam maser (J. Appl. Phys.)


P. D. Wall, Cord cells responding to touch, damage, and temperature of the skin (J. Neurophysiol.)

P. D. Wall and J. R. Cronly-Dillon, Pain, itch, and vibration (A.M.A. Arch. Neurol. Psychiat.)

J. B. Wiesner, Communication using earth satellites (Trans. IRE, PGMIL)
LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION


T. Kailath, Solution of an integral equation occurring in multipath communication problems (Trans. IRE, PGED)

R. D. Mattuck and M. W. P. Strandberg, Quadrupole selection rule in iron group spin-phonon interactions (Phys. Rev.)


H. R. Maturana, J. Y. Lettvin, W. S. McCulloch, and W. H. Pitts, Physiological evidence that cut optic nerve fibers in a frog regenerate to their proper places in the tectum (Science)

M. W. P. Strandberg, Noise spectrum of phase-locked oscillators (Proc. IRE)


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.)

346 A. C. Melissinos, Determination of the dipole moment and isotope shift of radioactive Hg¹⁹⁷ by "double resonance"

347 A. C. Melissinos and S. P. Davis, The dipole and quadrupole moments of the isomeric Hg¹⁹⁷* nucleus; isomeric isotope shift

352 T. Kailath, Sampling models for linear time-variant filters

SPECIAL PUBLICATIONS
