Tenth Annual Scientific Meeting, Houston Neurological Society, Houston, Texas
March 7, 1962

W. S. McCulloch, Anastomotic nets combatting noise (invited)

Lectures, Department of Biophysics, University of Colorado, Denver, Colorado
March 8-9, 1962

G. L. Gerstein, Firing patterns of single units in the central nervous system (invited)

Meeting of Yale Linguistic Club, Yale University, New Haven, Connecticut
March 12, 1962

E. S. Klima, From "It is I" to "Him and Me are here": The structural relationship between various styles of pronoun usage (invited)

Parent-Teachers Club Program, Harris School, Needham, Massachusetts
March 13, 1962

W. S. McCulloch, A bit about brains (invited)

Fourth North Carolina Junior Science Symposium, on "Research in Progress – Science in the Making" (sponsored by the North Carolina Academy of Science and the U.S. Army Research Office, Durham, in cooperation with Duke University), Duke University, Durham, North Carolina
March 15, 1962

W. S. McCulloch, Keynote Address: How brains work (invited)

Colloquium, Wesleyan University, Middletown, Connecticut
March 19, 1962

J. G. King, Two experiments in home cosmology (invited)

Seminar, Department of Preventive Medicine, Harvard Medical School, Boston, Massachusetts
March 19, 1962

G. L. Gerstein, Some models for the electrical activity of single neurons (invited)
MEETING PAPERS PRESENTED (continued)

Colloquium, Harvard University, Cambridge, Massachusetts
March 26, 1962

J. G. King, On the electrical neutrality of matter (invited)

American Physical Society Meeting, Baltimore, Maryland
March 26-29, 1962

D. H. Douglass, Jr., Magnetic field dependence of the superconducting energy gap
(invited)

W. H. Whitney, A. H. Dammig, Jr., E. H. Graf, and H. A. Rubin, Proton resonance in solid methane at 4°K

Symposium on Symbolic Languages in Data Processing, International Computation
Centre, Rome, Italy
March 26-31, 1962

Carol Bosche, Languages for symbol manipulation: COMIT

Third Annual Symposium on the Engineering Aspects of Magnetohydrodynamics,
Rochester, New York
March 28-29, 1962

G. Bekefi, Emission of microwaves from plasmas

W. D. Jackson and E. S. Pierson, MHD power generation with two-fluid systems

H. H. Woodson, G. L. Wilson, and A. T. Lewis, A study of magnetohydrodynamic
parametric generators

Interdisciplinary Conference on the Use of Telemetry in Animal Behavior and
Physiology in Relation to Ecological Problems (sponsored by the American Museum of
Natural History, Office of Naval Research and the Foundation for Instrumentation
Education and Research), New York
March 29, 1962

W. S. McCulloch, The colloquy of living things (invited)

Lecture, IBM Research Center, Yorktown Heights, New York
March 30, 1962

M. Eden, Handwriting generation and recognition (invited)
MEETING PAPERS PRESENTED (continued)

1962 Weizmann Memorial Lectures in the Exact Sciences, Rehovoth, Israel
April 3-9, 1962

W. A. Rosenblith, Three lectures (invited):
Sensory communication and a model sensory system
Electrical activity in populations of neural elements
Firing patterns in single neural elements

Colloquium, Carnegie Institute of Technology, Pittsburgh, Pennsylvania
April 6, 1962

V. H. Yngve, Language and memory (invited)

Technion Israel Institute of Technology, Haifa, Israel
April 6, 1962

W. A. Rosenblith, MIT's Center for Communication Sciences (invited)

Public Lecture, Weizmann National Memorial, Rehovoth, Israel
April 9, 1962

W. A. Rosenblith, Computers as tools in the study of the brain (invited)

Lecture, Hebrew University, Jerusalem, Israel
April 10, 1962

W. A. Rosenblith, The communication sciences and the nervous system (invited)

Seminar, Veterans Administration Research Laboratories in Neuropsychiatry,
Pittsburgh, Pennsylvania
April 11, 1962

W. S. McCulloch, A proper logic for neurology (invited)

Annual Meeting, National Academy of Sciences-National Research Council,
Washington, D.C.
April 12, 1962

W. A. Clark, The LINC (invited)

Ninetieth Eastern Meeting of the Biometric Society, Chapel Hill, North Carolina
April 12-14, 1962

J. S. Barlow, Study of control of eye movements in man, by means of
autocorrelation and crosscorrelation
MEETING PAPERS PRESENTED (continued)

Pittsburgh Neuropsychiatric Society Golden Anniversary Program, "Vistas in Neuropsychiatry," University of Pittsburgh
April 13, 1962

W. S. McCulloch, Ad Astra (invited)

New York State Section, American Physical Society Meeting, Tarrytown, New York
April 13-14, 1962

W. P. Allis, Historical development of plasma physics (invited)
S. C. Brown, Modern plasma diagnostics techniques (invited)

Second International Congress of Cybernetic Medicine, Royal Dutch Academy of Sciences, Amsterdam, The Netherlands
April 16-19, 1962

W. S. McCulloch, M. Blum, L. A. M. Verbeek, J. D. Cowan, and S. Winograd,
The synthesis of reliable systems from less reliable components

Joint IRE-AIEE Spring Lecture Series, New York
April 23, 1962

W. M. Siebert, Applied statistical decision theory in applications to communications (invited)

Washington Meeting American Physical Society, Washington, D.C.
April 23-26, 1962

W. J. Tomlinson III and H. H. Stroke, Nuclear moments and isotope shifts of neutron-deficient mercury isotopes 195, 195* and 194

W. T. Walter, Nuclear orientation and magnetic moment of Hg197

Sixteenth Annual Frequency Control Symposium (sponsored by U.S. Army Signal Corps Research and Development Laboratory), Atlantic City, New Jersey
April 25-27, 1962

A. Javan and T. S. Jaseja, Stability of optical masers
C. L. Searle, Comparison of performance criteria of frequency standards (invited)

Conference on Optical Pumping, Heidelberg, Germany
April 26-28, 1962

H. H. Stroke, Optical and radiofrequency spectroscopy with radioactive atoms — Recent experiments and their interpretation
Communication Sciences Colloquium, University of Michigan, Ann Arbor, Michigan
April 27, 1962

V. H. Yngve, Language and memory (invited)

Annual Meeting, American Otological Society, Dallas, Texas
April 29-30, 1962

N. Y-S. Kiang, Stimulus coding in the auditory nerve system and its implications for otology (invited)

Van der Waals Laboratory, University of Amsterdam, The Netherlands
May 1, 1962

S. C. Brown, Microwave radiation from gas discharge plasmas

Annual Spring Joint Computer Conference, San Francisco, California
May 1-2, 1962

B. G. Farley, Problems in the study of the nervous system (invited)

M. H. Goldstein, Jr., Discussion (invited)

Modern Engineering Course (sponsored by the University of California at Los Angeles), Crotonville, New York
May 1-2, 1962

W. S. McCulloch, Four lectures:
- Biomimesis
- Introduction to the Tractatus
- The nervous background of human factors
- Summary: Neurophysiology

Spring Joint Computer Conference, American Federation of Information Processing Societies, San Francisco, California
May 1-3, 1962

H. A. Ernst, MH-1, A computer-operated mechanical hand

Lecture, Cornell University, Ithaca, New York
May 3, 1962

F. Bitter, Flows in a steady plasma (invited)
MEETING PAPERS PRESENTED (continued)

Seminar in Mechanical Language, University of Pennsylvania, Philadelphia, Pennsylvania
May 7, 1962

V. H. Yngve, The COMIT system (invited)

Colloquium, Electrical Engineering Department, Syracuse University, Syracuse, New York
May 11, 1962

W. M. Siebert, Research in Communications Biophysics at M.I.T. (invited)

Symposium on Thermionic Power Conversion, Colorado Springs, Colorado
May 14-16, 1962

W. B. Nottingham, Ionization of cesium at surfaces
The energy distribution for electrons in a thermionic diode plasma

Second Conference on Self-Organizing Systems, Chicago, Illinois (sponsored by Office of Naval Research)
May 22-24, 1962

M. A. Arbib, J. D. Cowan, and W. S. McCulloch, Neurological models and integrative processes (invited)

B. G. Farley, Some similarities between the behavior of a neural network model and the electrophysiological experiments (invited)

Sixty-third Annual Meeting, Acoustical Society of America, New York
May 23-26, 1962

M. H. Goldstein, Jr., L. S. Frishkopf, and C. D. Geisler, Representation of sounds by responses of single units in the eighth nerve of the bullfrog

D. M. Green, On the combination of noise and pure tone masking

S. Inomata, Auditory pattern-processing model

D. C. Teas and N. Y-S. Kiang, Differential sensitivity to masking of the evoked response complex in unanaesthetized cats

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.)

A. E. Albert, Review of "Principles of Neurodynamics" by Frank Rosenblatt (Math. Revs.)

L. C. Bradley III and N. S. Wall, The Absence of Circular Dichroism in $\text{O}_2^{16}$ and a Resultant Upper Limit for Parity Nonconservation (Nuovo cimento)

L. W. Dean III, Interactions between Sound Waves (J. Acoust. Soc. Am.)


R. L. Kyhl, R. A. McFarlane, and M. W. P. Strandberg, Negative L and C in Solid-State Masers (Proc. IRE)

L. M. Lidsky, S. D. Rothleder, D. J. Rose, S. Yoshikawa, C. Michelson, and R. J. Mackin, Jr., Highly Ionized Hollow-Cathode Discharge (J. Appl. Phys.)

P. Penfield, Jr., A Classification of Lossless Three-ports (Trans. IRE, PGCT)


N. S. Sutherland, Simultaneous Discrimination Training of Octopus and Transfer of Discrimination along a Continuum (J. Comp. Physiol. Psychol.)

N. S. Sutherland, The Discrimination of Stationary Shapes by Octopus: Further Open and Closed Forms (Am. J. Psychol.)

N. S. Sutherland, The Visual Discrimination of Shape by Octopus: The Effects of Stimulus Size (Quart. J. Exp. Psychol.)


N. S. Sutherland, Visual Discrimination of Shape by Octopus: Squares and Crosses (J. Comp. Physiol. Psychol.)

R. D. Thornton, Take-Home Laboratories (J. Engr. Educ.)

L. Tisza, The Conceptual Structure of Physics (Revs. Modern Phys.)
JOURNAL ARTICLES ACCEPTED FOR PUBLICATION (continued)

G. J. Wolga, Two Quantum Transitions in the Microwave Magnetic Resonance Spectrum of Atomic Chlorine (Phys. Rev.)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

M. C. Goodall, A Fundamental Complementarity Principle for Inductive Logic (Nature)
H. A. Haus, Noise Figure for Negative Source Resistance (Proc. IRE)
G. B. Kliman, Calibration of an Electromagnetic Velocity Probe for Electrically Conducting Liquids (Rev. Sci. Instr.)
L. D. Smullin and G. Fiocco, Optical Echoes from the Moon (Nature)
L. D. Smullin and G. Fiocco, Project Luna See (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.)

385 P. Penfield, Jr., Tables and Formulas for Calculating Fourier Coefficients of Power-Law Devices
390 M. Schetzen, Some Problems in Nonlinear Theory
391 D. J. Sakrison, Application of Stochastic Approximation Methods to System Optimization
396 P. Chorney, Power and Energy Relations in Bidirectional Waveguides
397 D. M. Dix, The Magnetohydrodynamic Flow Past a Nonconducting Flat Plate in the Presence of a Transverse Magnetic Field

SPECIAL PUBLICATIONS


M. C. Goodall, Induction and Logical Types (Biological Prototypes and Synthetic Systems – I., Plenum Press, New York, 1962)


W. T. Peake, Biomedical Engineering in Basic Research (Proc. Conference on "The Role of Biomedical Engineering in Universities and Hospitals," Omaha, Nebraska, October 26-27, 1961)

