

PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

Pavlov Institute of Physiology, Leningrad, U. S. S. R.

December 2, 1963

W. A. Rosenblith, The Coding of Information in the Auditory System (invited)

IEEE Ultrasonic Symposium, Washington, D. C.

December 4-6, 1963

N. Tepley and M. W. P. Strandberg, Magnetoacoustic Measurements in Metals at Nine Gigacycles

Lecture Series, Systems Research Center, Case Institute of Technology, Cleveland, Ohio

December 13, 1963

W. S. McCulloch, Command and Control in Vertebrate Systems (invited)

American Astronomical Society Meeting, Washington, D. C.

December 26-28, 1963

A. H. Barrett, M. L. Meeks, and S. Weinreb, Microwave Detection of OH in the Interstellar Medium

Linguistic Society of America Annual Meeting, Chicago, Illinois

December 28-30, 1963

Y. Isami, On NP wa NP ga Predicate Constructions in Japanese

D. T. Langendoen, A Generative Phonological Account of Classical Greek Apophony

J. D. McCawley, The Genitive Plural in Finnish

First International LISP Conference, Mexico City, D. F.

December 30, 1963-January 3, 1964

M. Levin, An Algebraic Compiler with LISP (invited)

Fourth Conference on Cerebrovascular Disease, Princeton, New Jersey

January 8-10, 1964

W. D. Jackson, Methods of Measurement of Pulsatile Flow in Individual Vessels (invited)

Lecture Series, Systems Research Center, Case Institute of Technology, Cleveland, Ohio

January 10, 1964

J. Y. Lettvin, Recent Researches on the Mechanism of Vision (invited)

MEETING PAPERS PRESENTED (continued)

Far Infrared Physics Symposium (sponsored by Naval Ordnance Laboratory, Corona, California), Riverside, California

January 20-21, 1964

C. H. Perry, Far Infrared Spectroscopy of Solids (invited)

New York Meeting, American Physical Society, New York

January 22-25, 1964

O. Redi and H. H. Stroke, Spin and Nuclear Moments of Hg²⁰³

J. S. Rosenshein, Calorimetric Detection of the Lower Temperature Phase Transition in Solid Methane at High Pressures

N. Tepley and M. W. P. Strandberg, Magnetoacoustic Effects in Gallium at Nine Gigacycles

W. T. Walter and M. J. Stavn, Nuclear Orientation and Magnetic Moment of Hg¹⁹⁵

Symposium on Evaluation of Skeletal Muscle Hypertonia, Boston, Massachusetts

January 24, 1964

L. Stark, Methods of Measuring Hypertonia Using Computer Techniques (invited)

Seminar, New York University School of Medicine, New York

January 27, 1964

L. Stark, Biomedical Engineering (invited)

Seminar, University of Rochester, Rochester, New York

February 4, 1964

L. Stark, Biomedical Engineering (invited)

Sigma Xi Chapter, Boston University, Boston, Massachusetts

February 5, 1964

W. A. Rosenblith, Computers and the Study of the Brain (invited)

IEEE, Boston Section Meeting, North Andover, Massachusetts

February 10, 1964

W. M. Siebert, Signals and Noise in Auditory Theory (invited)

Colloquium of the Psychology Department, Harvard University, Cambridge, Massachusetts

February 12, 1964

L. Stark, Biological and Neurological Control Systems (invited)

Honors Program, New York University School of Medicine, New York

February 15, 1964

W. A. Rosenblith, Cybernetics Plus 16 (invited)

MEETING PAPERS PRESENTED (continued)

International Solid State Circuits Conference, Philadelphia, Pennsylvania
February 19-21, 1964

R. P. Rafuse and D. Steinbrecher, A 22-Gc Balanced Canonically Tuned
Varactor Quadrupler with 50-mw Output Power

Distinguished Visiting Lecture Program, University of Alabama, University, Alabama
February 21, 1964

W. A. Rosenblith, Engineering and the Sciences of Life and Man (invited)

Seminar, Northwestern University, Chicago, Illinois
February 26, 1964

L. Stark, Biomedical Engineering (invited)

Biophysical Society Annual Meeting, Chicago, Illinois
February 26-28, 1964

G. L. Gerstein and W. A. Clark, Conditional Relations of Firing Patterns from
Several Neurons

M. C. Goodall, Algorithmic Theories of Growth and Differentiation

G. P. Moore and W. Simon, Digital Computer Analysis of Intracellular Micro-
electrode Recordings of Neuronal Activity

R. R. Pfeiffer and N. Y-S. Kiang, Spontaneous Activity of Single Units in the
Cochlear Nucleus of the Cat

L. Stark, Nonlinear Analysis: Higher Order Kernels of Pupil System

JOURNAL ARTICLES ACCEPTED FOR PUBLICATION

(Reprints, if available, may be obtained from the Document Room,
26-327, Research Laboratory of Electronics, Massachusetts Insti-
tute of Technology, Cambridge, Massachusetts, 02139.)

S. C. Brown, Plasma Physics (The Phys. Teacher)

A. H. Barrett, Microwave Studies of the Terrestrial Atmosphere (J. Atmospheric Sci.)

J. B. Dennis, A Multi-User Computation Facility for Education and Research
(Communs. ACM)

N. I. Durlach, Note on Binaural Masking-Level Differences at High Frequencies
(J. Acoust. Soc. Am.)

G. L. Gerstein and W. A. Clark, Simultaneous Study of Firing Patterns in Several
Neurons (Science)

G. L. Gerstein and N. Y-S. Kiang, Responses of Single Units in the Auditory Cortex
of Unanesthetized Cats (Exptl. Neurol.)

G. H. Harman, Generative Grammars without Transformation Rules (Language)

G. R. Hunt, C. H. Perry, and J. Ferguson, Far Infrared Reflectance and Trans-
mittance of Potassium Magnesium Fluoride and Magnesium Fluoride (Phys. Rev.)

JOURNAL ARTICLES ACCEPTED FOR PUBLICATION (continued)

- F. Jelinek, Coding for and Decomposition of Two-Way Channels (Trans. IEEE (PGIT))
- N. Y-S. Kiang and D. C. Teas, Evoked Responses from the Auditory Cortex of Unanesthetized Cats. I. Organismic Variables (Exptl. Neurol.)
- E. S. Klima, Relatedness between Grammatical Systems (Language)
- S.-Y. Kuroda, Classes of Languages and Linear-Bounded Automata (Information and Control)
- W. T. Norris, The Work Function of the (110) Face of Tantalum in a Cesium Vapor (J. Appl. Phys.)
- W. B. Nottingham, Review of "Ultrahigh Vacuum and Its Applications" by R. W. Roberts and T. A. Vanderslice (Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963)
- D. C. Teas and N. Y-S. Kiang, Evoked Responses from the Auditory Cortex of Unanesthetized Cats. II. Stimulus Variables (Exptl. Neurol.)
- C. G. Wade and J. S. Waugh, Spin-Lattice Relaxation of ^{19}F in Crystalline Xenon Tetrafluoride (J. Chem. Phys.)
- S. Yasui, L. Stark, and G. H. Whipple, Comparison of Human and Computer Electrocardiographic Waveform Classification and Identification (Am. Heart J.)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- G. C. Maling, Jr., Comments on "Radiation Impedance of a Source near Reflectors" by R. V. Waterhouse (J. Acoust. Soc. Am.)
- H. J. E. H. Pauwels, Possibilities of Amplification of Sound Waves at Microwave Frequencies (Proc. IEEE)
- P. Penfield, Jr. and D. C. Karnopp, Moment-of-Inertia Demonstration (Am. Soc. Engr. Educ. J.)

SPECIAL PUBLICATIONS

- J. B. Dennis, Use of Computers in Speech Research (Computers in Medicine and Biology, published in Ann. New York Acad. Sci.)
- W. S. McCulloch, Reliable Systems Using Unreliable Units (Chapter II in Disorders of Communication, Waverley Press, Baltimore, Maryland, 1964)
- W. B. Nottingham, Emitter Materials for High-Temperature Energy Conversion (High Temperature Technology, Butterworths Publications Ltd., London, 1964)
- H. L. Van Trees, Synchronization and Bit Timing (in "Synchronization", five papers in a panel composed of S. W. Golomb, J. R. Davey, I. S. Reed, H. L. Van Trees, and J. J. Stiffler) (IEEE Trans., PGCS)
- P. D. Wall, Presynaptic Control of Impulses at the First Central Synapse in the Cutaneous Pathway (a chapter in Progress in Brain Research. Elsevier Publishing Company, Amsterdam, The Netherlands, 1964)