

## PUBLICATIONS AND REPORTS

### MEETING PAPERS PRESENTED

IRE, PGME, Boston Section  
April 8, 1958

M. H. Goldstein, Jr., Computer processing of bioelectric signals

International Symposium on Electronic Waveguides, Polytechnic Institute of Brooklyn  
April 8-10, 1958

W. P. Allis, Plasma electron oscillations

H. A. Haus, Electron-beam waves in microwave tubes (invited)

L. D. Smullin and P. Chorney, Propagation in ion-loaded waveguides

Twenty-ninth Annual Meeting of the Eastern Psychological Association, Philadelphia  
April 11-12, 1958

W. A. Rosenblith, Discussion of Georg von Békésy's paper, "Similarities between Hearing and Skin Sensation" (invited)

Meetings of the Federation of American Societies for Experimental Biology, Philadelphia  
April 12, 1958

P. D. Wall, On the repetitive firing of nerve cells

Central Association of Electroencephalographers Spring Meeting, Rochester, Minn.  
April 12-13, 1958

B. G. Farley, L. S. Frishkopf, M. Z. Freeman, C. Molnar, and T. Weiss,  
Computer techniques for the study of patterns in the electroencephalogram

Pro-Seminar on Social and Clinical Psychology, Harvard University  
April 21, 1958

W. A. Rosenblith, Neurophysiology of perception

Department of Electrical Engineering Seminar, University of Illinois  
May 1, 1958

W. S. McCulloch, Biological computers (invited)

IRE, PGMTT National Symposium, Stanford University  
May 5-7, 1958

S. C. Brown, The interaction of microwaves with gas discharge plasmas (invited)

MEETING PAPERS PRESENTED (continued)

Plasma Physics Seminar, Stanford Research Institute, Menlo Park, California  
May 6, 1958

S. C. Brown, Plasma physics research at M. I. T. (invited)

International Commission of Optics Colloquium on "Optics in Metrology," Brussels  
May 6-9, 1958

G. W. Stroke, New methods of length measurements with moving carriages servo-controlled by photoelectric interferometry (invited)

Fifty-fifth Annual Meeting of the Acoustical Society of America, Washington, D. C.  
May 8-10, 1958

J. M. Heinz and K. N. Stevens, On the production and perception of fricative consonants

P. Lieberman, On vowel intonation contours

T. T. Sandel and K. N. Stevens, The effect of intensity, duration, and spectrum on the perception of two-element auditory sequences

K. N. Stevens, Acoustical analysis of speech (invited)

University of Texas Conference on Syntax, Austin, Texas  
May 9-12, 1958

N. Chomsky, An introduction to transformational analysis (invited)

Symposium on Possible Uses of Earth Satellites for Life Sciences Experiments,  
Washington, D. C.  
May 14-17, 1958

W. A. Rosenblith, Electrophysiological "state functions" and the handling of sensory information (invited)

Ninety-first Annual Meeting of the American Otological Society, San Francisco  
May 17-18, 1958

N. Y-S. Kiang, Discussion of paper by F. L. Weille and J. W. Irwin, "The Potential Value of Pressures of the Labyrinthine Fluids as Measured with an Electro-manometer" (invited)

All Engineers Meeting, Federal Telecommunication Laboratories, Nutley, N. J.  
May 27, 1958

W. A. Rosenblith, The processing of sensory data by organisms (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, Mechanical Translation (Chem. Bull.)
- E. J. Baghdady and G. J. Rubissow, Dynamic-trap receiver captures weaker of two cochannel FM signals (Electronics)
- S. C. Brown, The interaction of microwaves with gas-discharge plasmas (Trans. IRE, PGMTT)
- H. A. Haus and R. B. Adler, Optimum noise performance of linear amplifiers (Proc. IRE)
- G. R. Murray, Jr. and J. S. Waugh, Nuclear resonance study of structure and molecular motions in some cobalt complex salts (J. Chem. Phys.)
- W. A. Rosenblith, Establishment of criteria based on the concept of noise exposure (The Laryngoscope)
- M. P. Schützenberger, On the quantization of finite dimensional messages (Information and Control)
- V. H. Yngve, A framework for syntactic translation (MT)
- V. H. Yngve, Review of "Mechanical Resolution of Linguistic Problems," by A. D. Booth, L. Brandwood, and J. P. Cleave (Science)

## LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

- M. W. P. Strandberg, Microwave-spectroscopy waveguide Stark cell with high performance capabilities (Rev. Sci. Instr.)

## 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.)

- 277 P. Chorney, Electron-stimulated ion oscillations
- 322 R. D. Haun, Jr., Stark effect on the hyperfine structure of cesium<sup>133</sup>
- 332 E. J. Baghdady, Theory of low-distortion transmission of FM signals through linear systems
- 336 M. Peter and M. W. P. Strandberg, Theoretical and experimental study of molecular-beam microwave spectroscopy