PUBLICATIONS AND REPORTS

MEETING PAPERS PRESENTED

International Symposium on Algebraic Linguistics and Automata Theory, Colloquium on Algebraic Linguistics, Jerusalem, Israel
August 24-25, 1964
N. Chomsky, Algebraic Linguistics (survey paper)

International Congress for Logic, Methodology and Philosophy of Science, Jerusalem, Israel
August 28, 1964
W. S. McCulloch, "What's in the Brain That Ink May Character?"

International Commission for Optics, Conference on Photographic and Spectroscopic Optics, Tokyo and Kyoto, Japan
September 1-8, 1964
C. H. Perry, Far Infrared Spectra and Dielectric Dispersion of a Variety of Materials Having the Perovskite and Related Structures

International Conference on Microwaves, Electric Circuits, and Information Theory, Tokyo, Japan
September 7-11, 1964
R. G. Gallager, Bounds on Error Probability for a Class of Channels with Memory
R. S. Kennedy, Performance Limitations of Dispersive Fading Channels

15th International Astronautical Federation Congress, Warsaw, Poland
September 7-12, 1964
W. D. Jackson and G. A. Brown, Space Vehicle Generation Systems with Liquid-Metal MHD Generators

Second International Symposium "Symbol and System," sponsored by the German Academy of Science, Magdeburg, East Germany
September 8-15, 1964
E. S. Klima, Topic, Subject, First Nominal: Their Grammatical Relevance
Colloquium "L'interaction des Champs H. F. Stationnaires au Progressifs avec un plasma," Institute National des Sciences et Techniques Nucléaires, Saclay (S-et-O), France
September 10-12, 1964
T. J. Fessenden, Pulsed Electron-Cyclotron Resonance Discharge
V Congrès International " Tubes pour Hyperfréquences," Paris
September 14-18, 1964
C. Freed and H. A. Haus, Amplitude Fluctuations of Gaseous Optical Masers

Allerton Conference on Circuit and System Theory, University of Illinois, Urbana, Illinois
September 28-30, 1964
H. B. Lee, On the Differing Abilities of RL Structures to Realize Natural Frequencies
Colloquium on Algebraic Linguistics and Theory of Grammar, Prague, Czechoslovakia
September 18-22, 1964
   E. S. Klima, Current Developments in Generative Grammar
   G. H. Matthews, On the Generative Power of Context-sensitive Grammars over
   That of Context-free Grammars

American EEG Society Meeting, Santa Fe, New Mexico
October 1-5, 1964
   J. S. Barlow, Some Methods of Validation of Computer-Analyzed EEG Data

Joint Meeting of the Operations Research Society of America and the Institute of
Management Sciences, Minneapolis, Minnesota
October 7-9, 1964
   V. H. Yngve, Language and Memory (invited Panel Discussion)

Fifth Annual Scientific Meeting, Psychonomic Society, Niagara Falls, Ontario,
October 8-10, 1964
   R. D. Hall, Cortical Evoked Potentials to Acoustic Clicks in the Rat during
   Conditioning
   P. A. Kolers, Reading Geometrically Transformed Text

National Academy of Sciences Meeting, Madison, Wisconsin
October 11-13, 1964
   N. Y-s. Kiang and R. R. Pfeiffer, Nerve and Nucleus: A Study of Stimulus
   Coding in the Initial Stages of the Auditory Nervous System (invited)
   D. C. Teas and N. Y-s. Kiang, Components of the Complex Response Evoked
   from the Auditory Cortex of Unanesthetized Cats (invited)

Seventeenth Annual Gaseous Electronics Conference, Atlantic City, New Jersey
October 14-16, 1964
   R. S. Cooper, Artificially Excited Moving Striations in a Glow Discharge Plasma
   J. F. Waymouth, Perturbation of a Plasma by a Probe II
   D. R. Whitehouse, Magneto-Plasma Diffusion with Biased Walls

American Academy of Ophthalmology and Otolaryngology, Chicago, Illinois
October 17, 1964
   J. J. Guinan, Jr. and W. T. Peake, Stapes Movement in Anesthetized Cats

IEEE, Boston Section Electron Devices Group Meeting, Raytheon Company,
Lexington, Massachusetts
October 21, 1964
   W. D. Jackson, Nuclear MHD Electrical Power Generation (invited)

Physics of Fluids Colloquium, Yale University, New Haven, Connecticut
October 21, 1964
   S. C. Brown, Far Infrared Studies of Gas Discharge Plasmas (invited)
Sixty-eighth Meeting, Acoustical Society of America, University of Texas, Austin, Texas
October 21-24, 1964
A. G. Bose, Relative Effects of Normal-Mode Structure of Loudspeakers and Rooms on Reproduction of Sound
R. R. Capranica, The Evoked Vocal Response of the Bullfrog
K. W. Gentle and U. Ingard, The Langmuir Probe as an Acoustic Detector in an Ionized Gas

Plasma Physics Seminar, Yale University, New Haven, Connecticut
October 26, 1964
A. Bers, Stability Criteria and Dispersion Relations (invited)

Fall Joint Computer Conference of the American Federation of Information Processing Societies, San Francisco, California
October 27-29, 1964
P. Mermelstein and M. Eden, A System for Automatic Recognition of Handwritten Words

November 2-4, 1964

Northeast Electronics Research and Engineering Meeting, Boston, Massachusetts
November 4-6, 1964
R. C. Gesteland and J. Y. Lettvin, A Receptor Model of the Frog's Nose

Division of Plasma Physics, American Physical Society Meeting, New York
November 4-7, 1964
R. R. Bartsch and A. Bers, Interactions of a Plasma with a Beam Injected across the Magnetic Field
A. Bers, Instabilities in Plasmas with Beam-type Distributions
T. S. Brown and D. J. Rose, Determination of Electron Velocities by Thomson Scattering
T. H. Dupree, Theory of Turbulent Plasma
T. J. Fessenden and L. D. Smullin, Pulsed Electron-Cyclotron Resonance Discharge
E. Gerry, Thomson Scattering from a Hollow-Cathode Arc Plasma
B. R. Kusse and L. D. Smullin, Plasma Dispersion Relations and the Stability Criteria
D. T. Llewellyn-Jones and S. C. Brown, Measurement of the Dielectric Coefficients of Dense Plasmas at Submillimeter Wavelengths
MEETING PAPERS PRESENTED (continued)

R. Parker, L. D. Smullin, and W. D. Getty, Beam Plasma Discharge
P. S. Spangler, N. C. Rasmussen, and D. J. Rose, Fusion Reactor Blanket Experiment
R. N. Wallace, S. Puri, and A. Bers, Electron Beam Interactions with Ions in a Hot Electron Plasma
J. B. Witting, Weak Collisionless Shock Waves
B. L. Wright and G. Bekefi, Reflection of Guided Waves from a Plasma Column in an Axial Magnetic Field

Symposium on Optical and Electro-optical Information Processing Technology, Boston, Massachusetts
November 9-10, 1964
T. S. Huang and O. J. Tretiak, Research in Picture Processing

Data Sciences Laboratory (AFCRL) Symposium on Models for the Perception of Speech and Visual Form, Boston, Massachusetts
November 11-14, 1964
R. R. Capranica, L. Frishkopf, and M. H. Goldstein, Jr., Voice and Hearing in the Bullfrog (invited)
P. A. Kolers, Spatial Operators (invited)

Fifth Annual Symposium on Switching Circuit Theory and Logical Design, Princeton University, Princeton, New Jersey
November 11-13, 1964
F. C. Hennie, III, Fault-Detecting Experiments for Sequential Circuits

Fourth Meeting, American Society of Cell Biology, Cleveland, Ohio
November 11-13, 1964
C. Doggenweiler, S. Frenk, and W. F. Pickard, Lanthanum Permanganate as a Fixative for Unit Membrane

Colloquium, University of Minnesota, Minneapolis, Minnesota
November 12, 1964
W. C. Schwab, Matrix Synthesis of Two-Element-Kind Networks (invited)

Seventeenth Annual Conference on Engineering in Medicine and Biology, Cleveland, Ohio
November 16-18, 1964
R. F. Lercari, G. O. Barnett, and W. D. Jackson, Linear System Analysis of Blood-Pressure Regulation

American Physical Society, 1964 Divisional Meeting of the Division of Fluid Dynamics, Pasadena, California
November 23-25, 1964
J. C. Wissmiller and W. D. Jackson, Velocity Profiles for Magnetohydrodynamic Flows in Rectangular Ducts
MEETING PAPERS PRESENTED (continued)

IEEE, Biomedical Electronics and Information Theory Chapter Meeting, M.I.T., Cambridge, Massachusetts
November 24, 1964
   W. M. Siebert, Some Implications of Stochastic Behavior of Primary Auditory Neurons (invited)

Research Laboratory Seminar, United Aircraft Corporation, East Hartford, Connecticut
November 27, 1964
   W. D. Jackson, MHD Power Generation with Liquid Metals (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, Massachusetts, 02139.)

J. S. Gadzuk and E. N. Carabateas, Penetration of an Ion through a Monolayer of Similar Ions Adsorbed on a Metal (J. Appl. Phys.)

T. S. Huang, Some Mapping Properties of RC and RL Driving-Point Impedance Functions (IEEE Trans. (CT))

S-Y. Kuroda, Causitive Forms in Japanese (Foundations of Language)

Paula Menyuk, Alternation of Rules in Childrens' Grammar (J. Verbal Learning and Verbal Behavior)

W. T. Norris, Nature of Spontaneous Oscillations in a Cesium Diode Energy Converter (J. Appl. Phys.)

M. Schetzen, Synthesis of a Class of Nonlinear Systems (J. Electron. Contr.)

M. Schetzen, Determination of Optimum Nonlinear Systems for Generalized Error Criteria Based on the Use of Gate Functions (IEEE Trans. (PTGIT))

M. Schetzen, Measurement of the Kernels of a Nonlinear System of Finite Order (J. Electron. Contr.)

W. W. Smith, Hyperfine Structure of Hg$^{193*}$, Hg$^{195}$ and Hg$^{195*}$ by Zeeman-Level Crossings (Phys. Rev.)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION

G. Colombo and G. Fiocco, Reply to Dr. Diermendjian's "Note on Laser Detection of Atmospheric Dust Layers" (J. Geophys. Res.)

E. T. Gerry and R. M. Patrick, Thomson Scattering Computations for Laboratory Plasmas (Phys. Fluids)

J. L. Hall II, Minimum Detectable Change in Interaural Time or Intensity Difference for Brief Impulsive Stimuli (J. Acoust. Soc. Am.)

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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, Massachusetts, 02139.)

423 Philip E. Serafim, Analysis of Electron Beam-Plasma Systems

425 Stuart H. Wemple, Polarization Effects on Magnetic Resonances in Ferroelectric Potassium Tantalate

428 John B. Heywood, Diagnostic Experiments in a Magnetically Driven Shock Tube

429 James D. Bruce, Optimum Quantization

SPECIAL TECHNICAL REPORTS PUBLISHED

(These monographs are available from The M.I.T. Press, Room 765, 50 Ames Street, Cambridge, Massachusetts, 02139.)

Number 10 Richard J. Briggs, Electron-Stream Interaction with Plasmas

SPECIAL PUBLICATIONS

W. S. McCulloch, Norbert Wiener and the Art of Theory (J. Nervous and Mental Disease)