Optical Society of America, Fiftieth Anniversary Meeting, Washington, D.C.
March 15-18, 1966
R. S. Kennedy and E. V. Hoversten, A Model of Propagation through a Turbulent Atmosphere for Optical Communication

American Physical Society Meeting, Washington, D.C.
April 25-28, 1966
C. O. Thornburg, Jr. and J. G. King, Search for an Electric Dipole Moment in the Cesium Atom

Seventy-first Meeting, Acoustical Society of America, Boston, Massachusetts
June 1-4, 1966
T. H. Crystal, Further Experiments Using a Larynx Model
W. T. Peake and J. J. Guinan, Jr., A Circuit Model for Transfer Characteristics of the Cat's Middle Ear
R. R. Pfeiffer, Input-Output Relations of Neurons in the Anteroventral Cochlear Nucleus Based on Component Analysis of the Waveforms
M. B. Sachs and N. Y. S. Kiang, Iso-rate Contours for Single Auditory Nerve Fibers

Lecture Series, Acoustics Institute, Technische Universität Berlin, Berlin, West Germany
June 12-July 19, 1966
U. Ingard, "Wechselwirkung Zwischen Schall und Strömung" (invited)

Solid State Devices Research Conference, Chicago, Illinois
June 15-17, 1966
A. H. Mc Whorter and H. A. Haus, Amplification at Subcritical Drift Velocities

Second Conference on Coherence and Quantum Optics, Rochester, New York
June 22-24, 1966
C. Freed and H. A. Haus, Intensity Fluctuations of Gas Lasers below and above Threshold of Oscillations (invited)

Lectures on Active Plasma Effects in Solids, Technische Universität Berlin, Fakultät für Electrotechnik, Institut für Hochfrequenztechnik, Berlin, West Germany
June 27, 30, July 4, 7, 11, 14, 1966
A. Bers, Plasma Waves in Solids (invited)
Electron-Phonon Interactions (invited)
Transit-Time Effects and Devices (invited)
MEETING PAPERS PRESENTED (continued)

Twenty-fourth Annual Conference on Electron Device Research, California Institute of Technology, Pasadena, California
June 29-July 1, 1966
   M. A. Lieberman, Electron-Beam Excitation of Ion Oscillations in an Electron Cyclotron Resonance Discharge

Fifth International Symposium on Rarefied Gas Dynamics, Oxford, England
July 4-7, 1966

International Symposium on MHD Electrical Power Generation (sponsored by the European Nuclear Energy Agency and the International Atomic Energy Agency), Salzburg, Austria
July 4-8, 1966
   G. A. Brown and E. K. Levy, Liquid-Metal Magnetic Hydrodynamic Power Generation with Condensing Ejector Cycles
   W. D. Jackson and E. S. Pierson, Material Limitations in the MHD Induction Generator
   J. L. Kerrebrock, M. A. Hoffman, and G. C. Oates, A Large Nonequilibrium MHD Generator
   C. A. McNary and W. D. Jackson, Brayton Cycle Magnetohydrodynamic Power Generation

Pattern Recognition Course Lecture, Massachusetts Institute of Technology, Cambridge, Massachusetts
July 7, 1966
   W. M. Siebert, Stimulus Transformations in the Peripheral Auditory System (invited)

Symposium on Aerospace Measurement Techniques, Electronics Research Center, National Aeronautics and Space Administration, Cambridge, Massachusetts
July 7-8, 1966
   G. Fiocco, The Measurement of Atmospheric Parameters by Laser (invited)
   M. W. P. Strandberg, Spectroscopy at Microwave Frequencies (invited)

Physikalische Gesellschaft zu Berlin, Berlin, West Germany
July 8, 1966
   A. Bers, Stability Theory for Plasmas and Dispersive Media (invited)

Technische Universität, Berlin, West Germany
July 16-25, 1966
   W. A. Rosenblith, Lectures (invited)
Lecture, Heinrich Herz Institut für Schwingungsforschung, Berlin, West Germany
July 17, 1966
U. Ingard, Some Problems in Plasma and Laser Acoustics (invited)

122nd Meeting, American Astronomical Society, Ithaca, New York
July 25-28, 1966
R. J. Allen and A. H. Barrett, Absolute Measurements of the Radio Flux from Cassiopeia A and Taurus A at 3.64 and 1.94 cm
R. J. Allen and A. H. Barrett, Secular Variations in the Centimeter Radio Flux from the Quasi-stellar Sources 3C273 and 3C279
J. M. Moran, Jr. and D. H. Staelin, Observations of the Moon near One Centimeter Wavelength
A. E. E. Rogers and A. H. Barrett, Radio Detection of Interstellar \( {\text{O}}^{18} \)\( \text{H} \)
D. H. Staelin and R. W. Neal, Observations of Venus and Jupiter near 1-cm Wavelength

Conference on Data Acquisition and Processing in Biology and Medicine, Rochester, New York
July 27, 1966
R. Suzuki, Simulation Study of a Hand Controlled by Myoelectric Signals

XVIIIth International Congress of Psychology, Moscow, U.S.S.R.
August 1-7, 1966
P. A. Kolers, Experimental Analysis of Reading
K. N. Stevens, On the Relations between Speech Movements and Speech Perception

Gordon Research Conference on Plasma Physics, Crystal Mountain, Washington
August 8-12, 1966
A. Bers, Wave-type Instabilities of Plasmas in Solids (invited)

International Congress of Mathematicians, Moscow, U.S.S.R.
August 14-28, 1966
P. Elias, Networks of Gaussian Channels with Applications to Feedback Systems (invited)

Western Electric Show and Convention, Los Angeles, California
August 23-26, 1966
J. Andersen and H. B. Lee, Realizability Conditions for the Driving-Point Impedances of RLCT Networks in Which the Reactances Exhibit Semiuniform Loss
A. B. Baggeroer, Maximum a posteriori Interval Estimation
D. L. Snyder, A Theory of Continuous Nonlinear Recursive Filtering with Application to Optimum Analog Demodulation
H. L. Van Trees, Detection and Continuous Estimation Theory
International Astronomical Union Symposium No. 31, "Radio Astronomy and the Galactic System," Leiden, Netherlands
August 25-31, 1966
B. F. Burke, Comparison of the Distribution and Motion of Atomic Hydrogen in Our Own Galaxy with Other Spiral Systems (invited)

American Physical Society Meeting, Mexico City, D. F.
August 29-31, 1966
W. P. Allis and J. C. de Almeida Azevedo, The Coupling of Waves across Hybrid Resonance in Inhomogeneous Plasmas

Solid State Theory Seminar, Hughes Research Laboratories, Malibu, California
August 31, 1966
J. W. Gadzuk, Self-Consistent Field Theory of a Point Impurity in the Surface Region of a Bounded Electron Gas (invited)

JOURNAL PAPERS 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.)


R. J. Allen and A. H. Barrett, Secular Variations in the Flux from Radio Sources at 3.64 and 1.94 cm (Abstract) (Astron. J.)


S. Bromberger, Questions (J. Philos.)

S. C. Brown, A Bibliographic Search by Computer (Phys. Today)

P. Chorney, A. Bers, and P. Penfield, Jr., Further Generalization of Waveguide Theorems (IEEE Trans. (MIT))


C. Freed and H. A. Haus, Photoelectron Statistics Produced by a Laser Operating below and above the Threshold of Oscillation (IEEE J. Quantum Electronics)


J. W. Gadzuk, Theory of Atom-Metal Interactions I. Alkali Atom Adsorption (Surface Sci.)

J. W. Gadzuk, Theory of Atom-Metal Interactions II. One-Electron Transition Matrix Elements (Surface Sci.)
JOURNAL PAPERS ACCEPTED FOR PUBLICATION (continued)

D. B. Geselowitz, On Bioelectric Potentials in an Inhomogeneous Volume Conductor (Biophys. J.)

E. B. Hooper, Jr. and G. Bekefi, A Laser Interferometer for Repetitively Pulsed Plasmas (J. Appl. Phys.)

K. C. Koerber, R. R. Pfeiffer, W. B. Warr, and N. Y. S. Kiang, Spontaneous Spike Discharges from Single Units in the Cochlear Nucleus after Destruction of the Cochlea (Exptl. Neurol.)

G. H. Matthews, A Conjecture Concerning Non Context-Free Languages (ICC Bulletin)

L. M. Mendell, Physiological Properties of Unmyelinated Fiber Projection to the Spinal Cord (Exptl. Neurol.)


P. Penfield, Jr., Thermodynamics and the Manley-Rowe Equations (J. Appl. Phys.)


J. G. Siambis and T. G. Northrop, Magnetic Field Geometry and the Adiabatic Invariants of Particle Motion (Phys. Fluids)

D. H. Staelin and R. W. Neal, Observations of Venus and Jupiter near 1-cm Wavelength (Abstract) (Astron. J.)

B. E. Warren and R. L. Mozzi, Multiple Scattering of X-rays by Amorphous Samples (Acta Cryst.)

J. F. Waymouth, Perturbation of Electron Energy Distribution by a Probe (J. Appl. Phys.)

T. F. Weiss, A Model of the Peripheral Auditory System (Kybernetik)

M. L. Wiederhold and W. T. Peake, Efferent Inhibition of Auditory Nerve Responses: Dependence on Acoustic Stimulus Parameters (Science)

D. R. Wilkins and E. P. Gyftopoulos, Transport Phenomena in Low-Energy Plasmas (J. Appl. Phys.)

D. R. Wilkins and E. P. Gyftopoulos, Thermionic Converters Operating in the Ignited Mode. Part I. Theoretical Output Current Characteristics (J. Appl. Phys.)

D. R. Wilkins and E. P. Gyftopoulos, Thermionic Converters Operating in the Ignited Mode. Part II. A Quasi-Equilibrium Model for the Interelectrode Plasma (J. Appl. Phys.)

S. H. Zisk, Brightness Distributions of Radio Sources at 2-cm Wavelength (Science)

LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION


H. B. Lee and P. J. Murphy, On the Natural Frequency Realizing Ability of Two Element Kind Structures (IEEE Trans. (CT))

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LETTERS TO THE EDITOR ACCEPTED FOR PUBLICATION (continued)


P. Penfield, Jr., Unresolved Paradox in Circuit Theory (Proc. IEEE)


H. M. Schneider, On Linearization of the Oscillations in a Plasma Slab (Phys. Fluids)

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.)

442 Thomas J. Fessenden, Pulsed Electron-Cyclotron Resonance Discharge Experiment

446 Ralph Alter, Bioelectric Control of Prostheses

SPECIAL PUBLICATIONS


