

Note: Here is what was published
in the G-AP newsletter.
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Talk I gave before Columbus branch
of IEEE

G-AP August 1971

CHAPTER NEWS

By Dr. Kenneth K. Mei, Associate Editor

AKRON

The Akron Chapter has had four meetings this year, which include the following talks:

- (1) "Time Domain Measurement of Microwave Properties of Materials," by Dr. Mike Krueger, A. F. Avionics Laboratory, WPAFB.
- (2) "Deployable Antennas for Spacecraft Applications," by Bob Carman, Goodyear Aerospace Corporation, Akron.
- (3) "Stripline-Fed Slot Antennas," by Dr. Paul Mayes, University of Illinois

The fourth meeting was a tour of the Akron Cablevision Co., the largest CATV installation in the United States.

BALTIMORE

The following talks were presented at the Baltimore AP/MTT meetings:

- (1) "Engineering Microwave Relay Systems for EMPB-Channel 67," by Rogers Bailey, Chesapeake & Potomac Telephone Co.
- (2) "Effect of Turbulence on Electromagnetic Propagation," by Dr. Leonard Taylor, University of Maryland.
- (3) "The Application of Periodic Loading to Ferrite Phase Shifter Design," by Mr. William G. Spaulding, Advanced Sensors.
- (4) "The Electrically Small Antenna," by Edwin Turner, Avionics Laboratory, Wright-Patterson Air Force Base.
- (5) "Computer-Aided Design of Array Antennas," by W. E. Schneider, Bendix Communication Division.

A slate of officers for the coming year has been elected. They are:

Chairman: B. A. Sichelstiel, Westinghouse
Vice-Chairman: G. Klein, Westinghouse
Secretary-Treasurer: L. K. Staley, Westinghouse

Meetings will be held by the new officers during the Summer to plan next year's program.

COLUMBUS

The Columbus AP/MTT Chapter has held six meetings, which included the following lectures:

- (1) "Reflection on Radar Reflections," by Prof. E. M. Kennaugh, Director, Electro Science Laboratory, Ohio State University, Columbus, Ohio.
- (2) "Navy Array Antenna Developments," by J. H. Provencher, Manager for Microwave Antennas, Naval Electronics Laboratory Center, San Diego, California.
- (3) "Needed: New Techniques and Concepts in Electromagnetics," C. J. Sletten, Director, Microwave, Massachusetts Physics Laboratory, A. F. Cambridge Research Laboratory, Bedford.
- (4) "Properties of the Peak Sidelobe of Random Arrays," B. D. Steinberg, General Atronics Corp., Philadelphia, Pennsylvania.

(5) "Microwave Propagation Research at Bell Laboratories," by Dr. D. C. Hogg, Head, Atmospheric Physics Research Department, Bell Telephone Laboratories, Holmdel, New Jersey.

(6) "The Endless, Boundless, Stable Universe," by G. Reber, Ohio State University, Radio Observatory, Delaware, Ohio.

DENVER-BOULDER

The Denver-Boulder G-AP Chapter, the Denver Section of IEEE, and the EE Department/Electronics Division (Denver Research Institute) held a one-day symposium on antennas and propagation on June 18 at the University of Denver. Speakers are exclusively from the Rocky Mountain area. The Symposium included review, developmental, experimental and theoretical papers. The technical program of the conference includes the following papers:

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| "Propagacao de Pulsos Sobre a Terra" | J. R. Wait |
| "VLF Transient Propagation Using Geometrical Optics and Magneto-Ionic Ionosphere" | R. A. Perala |
| "VLF Transient Signal Propagation for Night-time Ionospheric Conditions" | D. E. Rugg |
| "The Complex Atmospheric Transmission Factor Between 48 and 72 GHz for Vertical and Horizontal Path Models at Various Altitudes" | H. J. Liebe |
| "Analysis of a Versatile Printed Pattern Resolver" | N. Bleistein |
| "Microwave Ice Thickness Sensor" | W. Koppl |
| "Extended Bandwidth Multifilar Helix" | C. E. Kirchoff |
| "Microwave Losses and Radiometry in the Jovian Atmosphere" | R. J. Richardson |
| "Characteristic of a Horizontal Loop Antenna over a Two Layer Dissipative Earth" | D. C. Chang |
| "Some Current Research in Geophysics at Mines" | K. G. Morgan |
| "An Integral Equation for the Electric Field Within a Buried Ore Body" | A. Q. Howard |
| "A New Broadband Horn Array" | B. J. Bittner |
| "An Octave Bandwidth Eight Bit Digital Phase Shifter" | G. E. Johnson |
| "Antenna Theory Calculations of the Effects of Missile Exhaust Plumes on Missile Skin Currents" | E. E. O'Donnell |
| "Laboratory Testing of Trailblazer II Reentry Plasma Diagnostic Devices" | J. P. Byak |

Dr. Schevshenko, a senior scientific Associate at the Institute of Radio Technology and Electronics, Academy of Sciences of the U. S. S. R., visited the Denver-Boulder Chapters of G-AP and MTT on April 14-16. He gave a series of three lectures on "Open Waveguide Field Expansions:"

Ohio State University