

1955 IRE-AIEE-U of P
CONFERENCE ON
TRANSISTOR CIRCUITS
FEBRUARY 17-18, 1955
IRVINE AUDITORIUM
UNIVERSITY OF PENNSYLVANIA
PHILADELPHIA, PA.

Advance Program

WEDNESDAY, FEBRUARY 16

7:00 P.M.—REGISTRATION OPENS
Penn Sherwood Hotel

THURSDAY, FEBRUARY 17

8:00 A.M.—REGISTRATION OPENS
Irvine Auditorium

9:30 A.M.-12:00 Noon—SESSION I—Irvine Auditorium

OSCILLATORS

Chairman: J. J. SURAN, General Electric Company, Syracuse, N. Y.

Introductory remarks by Mr. D. G. Fink, Director of Research of Philco Corporation and Chairman of the National Committee for the 1955 Conference; and welcome by officials of the University of Pennsylvania.

- 1.1 "Transistor Superregenerative Detection," W. F. Chow—General Electric Company, Syracuse
- 1.2 "Field-effect Transistor Applications," C. Huang, M. Marshall, and L. B. White—Sylvania Electric Products, Inc., Ipswich
- 1.3 "A Stabilized Transistor Oscillator," E. Keonjian—General Electric Company, Syracuse
- 1.4 "A Symmetrical Transistor Oscillator With Low Second-harmonic Distortion," W. M. Grim, Jr.—Servomechanisms Lab, MIT

12:00 Noon-2:00 P.M.—LUNCH
Houston Hall

2:00 P.M.-5:00 P.M.—SESSION II—Irvine Auditorium
LINEAR SYSTEMS

Chairman: RICHARD B. ADLER, Research Lab of Electronics, MIT

- 2.1 "Predictions Based on the Maximum Oscillator Frequency," P. Drouilhet—Philco Corporation and MIT
- 2.2 "The Relationship of Transistor Parameters to Amplifier Performance," J. G. Linvill—Bell Telephone Laboratories
- 2.3 "Principles of Automatic Gain Control of Transistor Amplifiers," W. F. Chow and A. P. Stern—General Electric Company, Syracuse
- 2.4 "A Transistor Transmitter-receiver Unit," C. C. Bopp—Crosley Division of AVCO
- 2.5 "A Transistor Amplifier and Discriminator with Bias Stabilization," T. A. Patchell—Minneapolis-Honeywell, Brown Instrument Division

6:00 P.M.—COCKTAIL-BUFFET
Penn Sherwood Hotel

7:00 P.M.—INFORMAL GROUP DISCUSSIONS
Penn Sherwood Hotel

FRIDAY, FEBRUARY 18

8:30 A.M.—REGISTRATION OPENS
Irvine Auditorium

9:00 A.M.-12:00 Noon—SESSION III—Irvine Auditorium

DIGITAL-COMPUTER CIRCUITS

Chairman: RICHARD ENDRES, RCA Victor Division, Camden, N. J.

- 3.1 "The Regeneration Analysis of Junction-transistor Multivibrators," D. O. Pedersen—Bell Telephone Laboratories
- 3.2 "Junction-transistor Flip-flops with Differential-transformer Coupling," Howard Kennedy and A. B. Jacobsen—Motorola Research Laboratory
- 3.3 "A Multistable Transistor Circuit," R. A. Henle—International Business Machines Corporation
- 3.4 "Transistors in Computer Circuits," D. E. Deutch—RCA Victor Division, Camden, N. J.
- 3.5 "Transistor Plug-in Units for Digital Computing Systems," R. H. Baker—MIT

12:00 Noon-2:00 P.M.—LUNCH
Houston Hall

2:00 P.M.-4:30 P.M.—SESSION IV—Irvine Auditorium
"LARGE-SIGNAL" OPERATION

Chairman: ROBERT MAYER, Minneapolis-Honeywell, Brown Instrument Div.

- 4.1 "An N-stage Series Transistor Circuit," K. H. Beck—Minneapolis-Honeywell, Brown Instrument Division
- 4.2 "Junction-transistor Circuits for Analogue-to-binary Code Conversion," F. H. Blecher—Bell Telephone Laboratories
- 4.3 "A Temperature-compensated Transistor Power Converter," C. E. Paul—Bell Telephone Laboratories
- 4.4 "Transistors as Power-conversion Devices," R. R. Smyth—Technical Operations, Inc.
- 4.5 "Power-transistor Switching Circuits," E. Slobodzinski and C. Huang—Sylvania Electric Products, Inc., Ipswich

1955 IRE-AIEE-U of P CONFERENCE ON TRANSISTOR CIRCUITS

SPONSORSHIP AND SCOPE

The 1955 Conference on Transistor Circuits is sponsored jointly by the IRE Professional Group on Circuit Theory, the Science and Electronics Division of AIEE, and the University of Pennsylvania. The Conference is patterned after the first one held at the same location a year ago and will include papers on both linear and non-linear transistor circuit applications. Emphasis will be on material not previously available in the literature and the program is designed to be of greatest value to engineers and scientists with knowledge of transistor circuit behavior.

Rooms will be available at the Penn Sherwood Hotel after the Cocktail-Buffered Lunch on Thursday for those of those who wish to hold informal round-table discussions. Arrangements for these discussions may be made at the Conference.

Publication of many of the papers in professional journals is planned in lieu of Conference Transactions.

LOCATION

The University of Pennsylvania is host for the Conference, and has offered the facilities of Irvine Auditorium for the meetings and adjacent Houston Hall for the lunches.

Irvine Auditorium is located at the corner of 34th and Spruce Streets, Philadelphia, Pennsylvania. Central Philadelphia is easily reached by street cars No. 13 and 42 on Chestnut and Walnut Streets and the 30th Street Station of the Pennsylvania Railroad is less than a mile from the Auditorium.

ACCOMMODATIONS

The Penn Sherwood Hotel at 39th and Chestnut Streets has reserved a block of rooms for those attending the Conference. Those who arrive Wednesday evening may register or confirm their reservation for the Conference at the Hotel to avoid possible delays at Irvine Auditorium on Thursday morning. An informal cocktail-buffet, followed by the round-table discussions, will be held at the Penn Sherwood Hotel Thursday evening.

Lunch will be served to a limited number on both Thursday and Friday at Houston Hall. For those who prefer to eat elsewhere, Philadelphia offers many fine restaurants.

REGISTRATION

Registration and hotel reservation forms are being mailed to members of the sponsoring professional groups in the Eastern part of the United States. Others may obtain them from Mr. W. J. Popowsky, Minneapolis-Honeywell Regulator Company, 176 W. Loudon Street, Philadelphia 20, Pa. Fees for the Conference are as follows:

	<u>Advance</u>	<u>At Conference</u>
Registration	\$ 3.00	\$ 4.00
Thursday Lunch	1.75	2.00
Cocktail-buffet	4.50	5.00
Friday Lunch	1.75	2.00
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	\$11.00	\$13.00

Advanced fees apply only to those registering by mail before February 12, 1955.

Because of limited facilities and to assist the Local Arrangements Committee, advance registration and meal purchases are strongly recommended.