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NEWSLETTER

IRE Professional Group on ULTRASONICS ENGINEERING

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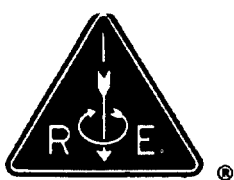
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NEWSLETTER

IRE Professional Group on ULTRASONICS ENGINEERING

THE PROFESSIONAL GROUP ON ULTRASONICS ENGINEERING (PGUE) IS AN ASSOCIATION OF IRE MEMBERS WITH PROFESSIONAL INTEREST IN THE FIELD OF ULTRASONICS ENGINEERING. ALL IRE MEMBERS ARE ELIGIBLE FOR MEMBERSHIP AND WILL RECEIVE ALL PGUE PUBLICATIONS UPON PAYMENT OF THE PRESCRIBED ASSESSMENT.

October 20

September, 1961

CALL FOR PAPERS

1962 IRE International Convention

The PGUE will sponsor two sessions in the 1962 IRE International Convention, March 26-29, to be held in New York City. General call for papers is extended at this time. Papers on all aspects of ultrasonics engineering, submitted by members or non-members of the IRE, are welcome. A prospective author must submit, prepared in triplicate, a 100-word abstract and a 500-word summary. Indicate in the covering letter that the paper is intended for presentation in one of the sessions sponsored by the PGUE. Material should be sent to:

Dr. Donald B. Sinclair, Chairman
1962 Technical Program Committee
The Institute of Radio Engineers
1 East 79th Street
New York 21, New York.

The deadline for submitting papers in response to the general call is October 20, 1961.

In the event that the program is not filled by papers submitted in response to the general call, it may be possible to have a paper added in the program even through the abstract and summary are ready by the deadline date of October 20. If an abstract and summary can be prepared by December 1, then it may be possible to have the paper scheduled by contacting directly the session organizer and discussing the matter with him. The session organizer for the PGUE is:

Dr. Allen H. Meitzler
Bell Telephone Laboratories
Whippany, New Jersey
Tel. No. TUCKER 7-1000, Ext. 2536.

The activity and effectiveness of the PGUE depend to a large extent upon the quantity and quality of the papers submitted at sessions sponsored by our professional group. The PGUE administrative committee would like to encourage increased participation in the sessions (technical meetings and in this connection invites all members and non-members) who are doing research or development work in the areas of ultrasonics engineering to report their results in papers presented at PGUE sessions.

IRE Professional Group on Ultrasonics Engineering Session
at The Fall Meeting of the Acoustical Society of America
Netherland Hilton Hotel - Cincinnati, Ohio - November 8-11
1961

The IRE Professional Group on Ultrasonics Engineering has cooperated with the Acoustical Society of America's Technical Committee on Sonic and Ultrasonic Engineering in arranging a special session on Ultrasonic Delay Lines at the fall Meeting of the Acoustical Society of America. The meeting will be held at the Netherland Hilton Hotel, Cincinnati, Ohio, November 8-11, 1961. On November 9 is a scheduled trip to sessions and tours at Wright Patterson Dayton, Ohio). The Ultrasonic Delay Line session is scheduled for Wednesday, afternoon, November 8. Other Acoustical sessions of particular interest to IRE-PGUE members are scheduled for Wednesday morning symposium on Semiconductor Transducers,

and Physical Acoustics sessions on Friday and Saturday (which will include papers on ultrasonics). For this meeting the regular Acoustical Society member registration fee of two dollars will apply also to IRE-PGUE members, instead of the non-member registration fee. The program for the Ultrasonic Delay Line session follows:

Wednesday Afternoon, November 8, at 2:00 P. M.
North Hall

Session E. Ultrasonic Delay Lines
(in cooperation with IRE Professional Group on Ultrasonics Engineering
David L. Arenberg, Chairman
Invited Symposium Papers (25 min.)

E1 Multiple Reflection Type Quartz Delay Lines
W. F. Konig and L. B. Lambert
Columbia Univ. Elec. Res. Labs., N. Y. 27 N. Y.

E2 Magnetostrictive Delay Lines
Arthur Rothbart
98 Van Cortlandt Park S., Bronx 63, N. Y.

E3 Guided-Wave Dispersive Delay Lines
John E. May, Jr.
Bell Telephone Labs., Inc. Whippany, N. J.

E4 Applications of Delay Lines in Correlation Processing
C. W. Hoover, Jr.
Bell Telephone Labs., Inc., Whippany, N. J.

Contributed Papers (15 min.)

E5 A Wide Band Variable Ultrasonic Delay Line
O. R. Price, M. E. Pedinoff, E. Lax, E. Sittig
Ultrasonic Systems, Inc., Los Angeles, Calif.
and G. R. Crane and R. H. Duval
Westrex Corp., Beverly Hills, Calif.

E6 Ultrasonic Delay Lines for Digital Data Storage
Allen H. Meitzler
Bell Telephone Labs., Inc., Whippany, N. J.

E7 Low Loss Wide Band Delay Line Using Multi-Element Ceramic Transducers
C. E. Bieling and R. Hixenbaugh
Bell Telephone Labs., Inc., Whippany, N. J.

E8 Synthesis of Dispersive Delay Characteristics by Thickness Tapering in Ultrasonic Strip Delay Lines
A. H. Fitch
Bell Telephone Labs., Inc., Whippany, N. J.

E9 Miniaturized Glass Delay Lines with Improved Electrical Characteristics
C. A. Bieling and N. C. Thomas
Bell Telephone Labs., Inc., Whippany, N. J.

E10 Resonant Variations of Ceramic Rectangular Bar Transducers
E. Larry Fabian
Bell Telephone Labs., Inc., Whippany, N. J.

E11 The Dependence of the Lowest Thickness Longitudinal Mode Resonant Frequencies of Long Rectangular Bars on the Width

and Thickness Dimensions
T. R. Meeker
Bell Telephone Labs., Inc., Whippany, N. J.

Note: No hotel commitment has been made by IRE-PGUE, so members wishing to attend should make their own arrangements for housing well in advance.

NEXT MEETING OF ADMINISTRATIVE COMMITTEE

The next meeting of the Committee is scheduled for Tuesday evening at 7, November 7, 1961, in the Netherland-Hilton Hotel in Cincinnati, Ohio. This is the evening before the technical session on ultrasonic delay lines is to be held at the meeting of the Acoustical Society.

The proposed agenda is:

1. Finances
2. Papers Procurement
3. Membership Questionnaire
4. National Symposia

RESULTS OF ATTEMPT TO FORM CHAPTER IN N. Y. C. AREA

Last April, the membership in the New York City Metropolitan area was asked to comment on the advisability of forming a PGUE chapter in that area. Since only about 25% of the members expressed an opinion, the Administrative Committee concluded that this was too small a show of support to warrant further action.

FINANCIAL STATEMENT

Period from January 1, 1961 to June 30, 1961

Balance at beginning of period	\$4,949.21
Receipts during period	2,238.84
Total	\$7,188.05
Expenses during period	\$2,062.04
Balance at end of period	\$5,126.01

MEMBERSHIP

As of June 30, 1961, we had the following number of paid members:

Regular Members	961
Students	20
Affiliates	5
	<u>986</u>
