

IRE PROFESSIONAL GROUP ON ULTRASONICS ENGINEERING

NEWSLETTER #4 April 16, 1954

ASSESSMENT

Payment of your \$2.00 assessment by April 30, 1954 entitles you to the 1954 CONVENTION RECORD FREE. See below for more information.

Ultrasonic Sessions at the 1954 IRE National Convention

Your PGUE sponsored two Ultrasonic Sessions on Thursday March 25th. The titles and authors of Ultrasonics I Session were as follows:

1. The Ultrasonic Burglar-Alarm System by S. Bagno, J. B. Cooper, and E. A. Levi (Alertronic Co.)
2. A Complex Impedance Recorder by H. M. Sharat (Lab for Electronics)
3. Ultrasonic Delay Lines by D. L. Arenberg (Arenberg Ultrasonic Lab)
4. Wide-Band Large Dynamic Range-Fused Quartz Delay Lines for Increased Capacity, High Speed Computer Memories by D. A. Spaeth (MIT), T. F. Rogers (Air Force Cambridge Research Center), S. J. Johnson (Andersen Labs)
5. Contour Modes of Plates Excited Piezo-electrically and Determination of Elastic and Piezo-electric Constants by R. Bechmann (Brush Labs)

Mr. M. D. Fagen of the Bell Telephone Labs was the chairman of Ultrasonics I.

The titles and authors of Ultrasonics II Session were as follows:

1. Applications of Ultrasonic Energy to Industrial Use by A. L. Bayles (Bayles, Hollenbeck & Co.)
2. Effects of Ultrasonic Waves on Electrolytes and Electrode Processes by S. Barnartt (Westinghouse Research Labs)
3. Application of Ultrasound to the Brain by P. A. Lindstrom (Pittsburgh Veterans Administration Hospital)
4. Selective Action of Ultrasound on Nerve Tissue by W. J. Fry (University of Illinois)
5. Effects of Ultrasound on Living Cell Structure by E. H. Newcomer (University of Connecticut)

Dr. J. F. Herrick of the Mayo Clinic was the chairman of Ultrasonics II.

Each session was attended by approximately 250 people. More than half of those present were IRE members. A poll taken of the non-IRE members indicated that more than half of those replying showed a desire to join the PGUE.

Publications

The 1954 Edition of the Convention Record will be available in June. All PGUE members who will have paid their \$2.00 annual assessment by April 30, 1954 will receive free the complete papers that were listed above; that is, that part of the Convention Record which includes Ultrasonics. Payment of this assessment to IRE Headquarters also entitles you to receive all issues of our TRANSACTIONS and future NEWSLETTERS.

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The first issue of our TRANSACTIONS is scheduled for May while the second should follow soon thereafter. The first issue will include at least five technical papers plus other information about the Group itself. Three of the five papers were sponsored by the PGUE at the National Electronics Conference last September. The papers will be concerned with delay lines and medical and cleaning applications, and with an electronic flowmeter.

Advertising is available and is in fact being actively solicited for the TRANSACTIONS. They consist of two-line institutional listings giving names, addresses and products or services of interested firms. This is a wonderful opportunity to place your firm's name and its products before a specially selected group of engineers vitally interested in ultrasonic problems. IRE Headquarters should be referred to for such listings. The charge is \$20.00 per listing and \$35.00 for listing in two successive TRANSACTIONS.

#### Administrative Committee Meeting

Your Group Administrative Committee held its third meeting on March 25th in New York City. It was decided to sponsor a session on Ultrasonics at the IRE Western Electronics Show and Convention (WESCON) in Los Angeles. The WESCON is to be held August 25-27. (Last September the PGUE sponsored its first Symposium at the National Electronics Conference, the NEC, in Chicago) In making this decision the committee thought it would be a good idea to sponsor a session on alternate years at WESCON and at NEC. Potential authors of papers for the WESCON Session, please contact Dr. Oskar Mattiat, Clevite-Brush Development Co., 3405 Perkins Ave., Cleveland 14, Ohio.

Hereafter, as a result of this meeting, all abstracts of articles appearing in the PGUE TRANSACTIONS will be published in the PROCEEDINGS in a separate section. They will not be included in the abstracts of the London Compilation. This separate section of TRANSACTIONS abstracts is to be a new feature of the PROCEEDINGS.

It is expected that future TRANSACTIONS will be made available to all accredited College Faculty Advisors. In this way many students who heretofore were unfamiliar with the nature of ultrasonics will be able to get more acquainted with the Science. It is also planned to ask a recognized authority to write a tutorial paper for the IRE STUDENT QUARTERLY.

Elections for three new members to the Administrative Committee for the term of office July 1, 1954 to June 30, 1957 will take place next June. A Nominating Committee is being chosen very shortly.

#### This is your Group

We need more people to help on our editorial board and on our membership, publications, and paper procurement committees. We welcome and need all the additional help we can get.

Send any comments you would like to see published in our NEWSLETTERS or TRANSACTIONS. Our next Administrative Committee Meeting will be in June 1954. Any recommendations about Group policy received by then will be greatly appreciated.

The success and accomplishments of our Group depends on a growing membership. If you know of some people who should belong, send names and addresses to MORTON FAGEN, Bell Telephone Labs, Murray Hill, N. J.

A. L. Lane, Chairman