



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.

Number 14

December 1958

NATIONAL ULTRASONICS SYMPOSIUM - CALL FOR PAPERS

The PGUE has made plans for a National Ultrasonics Symposium which will be held at Stanford University, Stanford, California on Monday, August 17, 1959. This one day meeting will be followed by one or two PGUE sponsored WESCON sessions. The WESCON meeting will be held in San Francisco during August 18-21, 1959. Dr. Vincent Salmon is chairman of the Symposium Committee. Submission of papers is hereby invited. Suggested topics, which are not to be taken as all inclusive, are:

1. Design, calibration and use of high-power transducers for use in industrial processing and in sonar.
2. Antenna design and its analog in sonar transducers.
3. Electromechanical filters.
4. Survey of, new developments in, and circuit problems associated with ultrasonic delay lines.
5. Ultrasonic modulation in optical systems.
6. Nondestructive testing by energy absorption.
7. Effectiveness of ultrasonic cleaning by pulsed vs. steady-state cavitation.
8. Noncontacting measurement of surface velocity by ultrasonic probe beam using Doppler effect.

Prospective authors are requested to submit the following information by April 1, 1959:

- i. 100-word abstract in triplicate, title of paper, name and address.
- ii. 500-word summary in triplicate, title of paper, name and address.

Acceptance or rejection notices will be mailed by May 1, 1959.

Papers will be published in the Transactions.

All material should be addressed to:

Dr. Vincent Salmon, Chairman
1959 National Ultrasonics Symposium
Stanford Research Institute
Menlo Park, California

A MESSAGE FROM THE CHAIRMAN

One of our major objectives is to foster the exchange of information among the membership. To better our efforts in this direction we are this year planning an additional major technical meeting and have added a Papers Procurement Committee to our organization.

In the past our major technical meeting has been at the IRE National Convention. Our limit of two sessions there imposes severe

restrictions on the planning of a program at the same time sufficiently intensive and extensive to be of interest to all of our membership.

WESCON meets in San Francisco August 18-21, 1959. We have planned a National Ultrasonics Symposium for August 17, 1959 to be held in the San Francisco area so that in combination with PGUE sessions at WESCON, sufficient session time will be available to provide a program worthwhile to most of our membership.

The Papers Procurement Committee should provide our Transactions Editor with some long needed assistance in providing an organized effort to obtain more high quality papers for the Transactions. With a membership widely dispersed geographically and representing a fair cross section of the specialties within our field, this committee should be able to encourage the submission of papers on each new development as it occurs. In addition, it is intended that this committee will stimulate the writing of survey or tutorial papers in the various fields of interest.

The National Symposium and the Papers Procurement Committee will succeed only to the extent that you as PGUE members participate in these activities by writing and presenting papers.

1959 NATIONAL CONVENTION

The PGUE technical sessions at the 1959 IRE National Convention are scheduled for Thursday, March 26th, from 10:00 A. M. to 12:30 P. M. and from 2:30 P. M. to 5:00 P. M. Papers will be presented on the following subjects: Transducers, Transducer Materials, Delay Lines, and Industrial Applications.

CHANGES IN CONSTITUTION

The changes in the PGUE Constitution which were set forth in the September 1958 NEWSLETTER have been approved by the Membership. A total of 309 ballots were returned to IRE Headquarters and the tally was as follows:

<u>Article VI, Section I,</u> pertaining to election of the Administrative Committee by the Group membership.	YES - 305	NO - 4
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<u>Article VIII, Section I,</u> pertaining to the method of amending the Consti- tution.	YES - 280	NO - 29
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ADMINISTRATIVE COMMITTEE ELECTION NOTICE

In accordance with the above mentioned Constitutional change, election to the three posts on the Administrative Committee which become vacant July 1, 1959, will be by mail ballot of the Group membership between April 15 and May 15. A slate will be prepared by the Nominating Committee by March 1, 1959. Your attention is called to Article 2 of the Bylaws as amended March 26, 1958, which provides that nomination may also be made by a petition signed by 25 members of the Group submitted to the Administrative Committee prior to March 1.

PGUE ORGANIZATION - 1958-1959

Administrative Committee

- r. John E. May, Chairman; Bell Telephone Laboratories, Whippany, New Jersey
- Mr. Lawrence Batchelder, Vice Chairman; Raytheon Manufacturing Company, Wayland, Massachusetts
- Mr. Henry J. Bickel, Secretary; Federal Scientific Corporation, 615 West 131st Street, New York 27, New York
- Mr. David L. Arenberg, Treasurer; Arenberg Ultrasonic Laboratory, 94 Green Street, Jamaica Plain 30, Massachusetts
- Mr. Robert J. Bobber; U.S.N. Underwater Sound Reference Laboratories, P. O. Box 3629, Orlando, Florida
- Dr. Leon W. Camp; Bendix Aviation, Pacific Division, 11600 Sherman Way, North Hollywood, California
- Dr. J. Warren Horton; U.S.N. Underwater Sound Laboratories, New London, Connecticut
- Dr. Wilfred Roth; Roth Laboratory for Physical Research, 1240 Main Street, Hartford 3, Connecticut
- Dr. O. H. Schmitt; Department of Physics, University of Minnesota, Minneapolis 14, Minnesota
- Mr. Morton D. Fagen, Ex-officio; Bell Telephone Laboratories, Murray Hill, New Jersey
- Dr. Cyril M. Harris, Ex-officio; Electronics Research Laboratories, Columbia University, 632 West 125th Street, New York 27, New York
- Dr. Julia F. Herrick, Ex-officio; Biophysics Section, Mayo Clinic, Rochester, Minnesota

The following have been appointed to serve on the Standing Committees (Chairman are also ex-officio members of Administrative Committee).

Awards

- Mr. Frank Massa, Chairman; Massa Division, Cohu Electronics, Inc., 5 Fottler Road, Hingham, Massachusetts
- Dr. David L. Arenberg
- Dr. Floyd Dunn; Biophysical Laboratory, Department of Electrical Engineering, University of Illinois, Urbana, Illinois
- Dr. Herman Epstein; Tele-Dynamics Inc., 5000 Parkside Avenue, Philadelphia 31, Pennsylvania

Constitution

- Mr. Morton D. Fagen

Transactions Editor

- Dr. Oskar E. Mattiat; Aerophysics Development Division, Curtiss-Wright Corporation, P. O. Box 689, Santa Barbara, California

IRE National Convention

- Mr. Donald Berlincourt, Chairman; Clevite Research Center, 540 East 105th Street, Cleveland 8, Ohio

Liaison with Acoustical Society

- Mr. Morton D. Fagen, Chairman
Dr. Oskar E. Mattiat

Membership

- Dr. Allen H. Meitzler, Chairman; Bell Telephone Laboratories, Whippany, New Jersey

National Ultrasonics Symposium

- Dr. Vincent Salmon, Chairman; Stanford Research Institute, Menlo Park, California

Nominations

- Dr. Cyril M. Harris, Chairman
Mr. Robert J. Bobber

- Dr. Julia F. Herrick
Mr. Theron M. Lambert; 3994 Crestview Drive, Salt Lake City 17, Utah
Mr. Amor L. Lane; Technitrol Engineering Company, 1952 East Allegheny Avenue, Philadelphia 34, Pennsylvania

Papers Procurement

- Dr. Wilfred Roth, Chairman
Mr. Henry J. Bickel
Mr. Edward G. Cook; Curtiss-Wright Corporation, Princeton Division, P. O. Box 110, Princeton, New Jersey
Mr. Stanley L. Ehrlich; Raytheon Manufacturing Company, Wayland, Massachusetts
Dr. J. Warren Horton
Dr. Stanley E. Jacke; Research Division, Detrex Chemical Industries, Inc., P. O. Box 501, Detroit 32, Michigan
Dr. Oskar E. Mattiat
Dr. J. J. G. McCue; Lincoln Laboratory, M. I. T., Lexington 73, Massachusetts
Mr. Aubrey W. Pryce; Office of Naval Research 411, Department of the Navy, Washington 25, D. C.
Dr. Robert N. Thurston; Bell Telephone Laboratories, Murray Hill, New Jersey
Mr. Howard E. VanValkenburg; Sperry Products, Inc., Danbury, Connecticut

Papers Review

- Dr. William J. Fry, Chairman; Biophysical Laboratory, Dept. of Electrical Engineering, University of Illinois, Urbana, Illinois
Dr. Frank J. Fry; Biophysical Laboratory, Department of Electrical Engineering, University of Illinois, Urbana, Illinois
Dr. Floyd Dunn