

COMMUNICATIONS SYSTEMS NEWSLETTER



Number 36

March 1964

1. PURPOSE OF NEWSLETTER

1.1 This NEWSLETTER is published quarterly for the Administrative Committee of the Group to serve as a vehicle for the dissemination of news items of current interest to group members.

Items concerning meeting notices, chapter activities, publicity, personal and professional items, and other material should be submitted as follows:

Western (chapters marked with an asterisk:*)

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The deadline for the June 1964, issue will be May 15, 1964.

1.2 As a special service, the March and June 1964 issues of the PTG-CS NEWSLETTER are being distributed to the individual members of the IEEE Communications Division, as well as to the members of PTG-CS. This is being done so that all members of both groups will be fully informed of the pending merger and its provisions. These are spelled out in Section 2, below, through the publication in full of the Constitution and Bylaws of the new Professional Technical Group on Communication Technology.

We welcome these new readers of the NEWSLETTER, and offer the services of our next issue for publicizing the affairs of their committees and groups. Newsworthy personal items will also be accepted, for use in the "Members' Column." After mid-year, the NEWSLETTER will become the official news organ of the new PTG on Communication Technology.

2. MERGER WITH IEEE COMMUNICATIONS DIVISION

2.1 The following excerpts from a letter to PTG-CS officers and Administrative Committee members outlines the status and program for the merger:

Gentlemen:

Merger of the PTG on Communications Systems and the IEEE Communications Division into a new group to be called the PTG on Communication Technology has been approved as follows:

IEEE PTG Committee on January 7, 1964

IEEE Executive Committee on January 8, 1964

Approval was based on the petition submitted by your Chairman and by the Chairman of the Communications Division incorporating the plan for merger discussed and approved at the October 7, 1963 meeting of the Administrative Committee.

Adoption of the new Constitution and Bylaws will be placed on the Agenda of the next meeting of the PTG-CS AdCom in New York City on March 23, 1964.

In accordance with the approved "Plan for Merger", the March 23, 1964 meeting will be the one at which the present AdCom will elect a Vice-Chairman, Treasurer, and six members-

at-large for the Interim Organization of the new group. This election will be in accordance with Articles VI and VII of the present constitution, modified to conform with the requirements for the Interim Organization.

I wish to take this opportunity to thank the officers and members of the AdCom for their enthusiastic cooperation in working up the principles and details required to make this merger possible. I also wish to request your further cooperation in assuring the success of the new group.

Yours very truly,

D.S. Rau, PTG-CS Chairman

2.2 THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS - PROFESSIONAL TECHNICAL GROUP ON COMMUNICATION TECHNOLOGY - CONSTITUTION -

Article I - Name, Object and Scope

Section 1: The organization shall be known as the Professional Technical Group on Communication Technology of the IEEE. It will hereinafter be referred to as "the Group" or "The Communication Group."

Section 2: Its objects shall be scientific, literary and educational in character. The Group shall strive for the advancement of the theory and practice of electrical and electronics engineering and the related arts and sciences and the maintenance of high professional standards among its members, all in consonance with the Constitution and Bylaws of IEEE and with special attention to such aims within the field of interest of the Group as hereinafter defined.

Section 3: The scope of activities of the Group is the organization of members' meetings, papers, publications (including abstracts, translations, bibliographies and reports), and in cooperation with Region and Section activities on the technology of all telecommunications including telephone, telegraphy, facsimile, and point-to-point television, by electromagnetic propagation including radio; wire; aerial, underground, coaxial, and submarine cables; waveguides, communication satellites and lasers; in marine, aeronautical, space and fixed station services; repeaters, radio relaying, signal storage and regeneration; telecommunication error detection and correction; multiplexing, carrier techniques; communications switching systems; data communications, and communication theory. Where another duly authorized PTG or Technical Committee is cultivating a specific area with the telecommunication field of interest, the Communication Technology Group will support those activities. This Group accepts responsibility for seeing to the initial and continuing cultivation of all areas in its field of interest either by itself or with other units of IEEE.

Section 4: The Group shall aid in promoting close cooperation and exchange of technical information among its members and those of other Groups, Committees and Divisions of IEEE and to this end shall hold meetings for the presentation and discussion of papers, and through its committees shall study and provide for the needs of its members by stimulating research, initiating and developing engineering standards, and sponsoring periodical and special publications.

Article II - Membership

Section 1: The members of the Group shall be only those members of IEEE in good standing and in any grade, including students, who have an interest in any phase of the scope of this Group and who evidence such interest by appropriate tangible support of the objectives of the Group.

Section 2: All members of the Group shall have the privilege of

attending and participating in meetings of the Group. Members shall have the right to vote and to hold office and serve on committees except that only Senior Members and Fellows of IEEE shall be eligible to serve as members of the Administrative Committee.

Article III - Technical Committees and Chapters

Section 1: Technical Committees may be formed for the intensive cultivation of special aspects of the technical field of interest of the Group or for reasons of geographic efficiency or convenience, consistent with the purposes of the Group as prescribed and within the regulations of the IEEE. A written scope shall be submitted for each and shall be non-conflicting. In order to avoid conflicts, the Administrative Committee shall have power to approve or alter the scopes of Technical Committees.

Section 2: A Chapter may be formed in a Section or a geographical area including several contiguous Sections with the approval of the Administrative Committee of the Group. A Chapter of this Group remains in the control and supervision of the Section or Sections within which it is organized. Its principal functions are to promote Chapter and Section meetings and activities in the scope of the Group and to assist the officers of the Group in the conduct and coordination of Group-sponsored meetings and activities in the territory of the Section(s).

Article IV - Finances

Section 1: IEEE Headquarters shall act as bursar for all Group funds except as specified in the Group Bylaws.

Fees or assessments may be levied on members of the Group for publications and other activities and services as provided in the Bylaws. Group membership may be maintained only by prompt and regular payment of this annual fee.

Section 2: Suitable registration charges may be collected by the Group from members and non-members of IEEE attending Group meetings, symposia, conferences and conventions except when such meetings are held as sessions or parts of an IEEE International, Regional or Sectional meeting, conference or convention. Registration charges may be higher for non-members than for members of IEEE.

Section 3: Group income may be derived from sources such as advertising, expositions, contributions and others consistent with applicable IEEE rules. Income sources not explicitly covered by IEEE rules shall have the approval of the General Manager before being adopted by the Group.

Section 4: The Treasurer shall administer all monies of the Group. He shall deposit all receipts with IEEE Headquarters. Funds may be withdrawn from the bursar on approval of the majority of the Administrative Committee. Between meetings of the Administrative Committee, expenses not exceeding \$500.00 in total may be met on the signatures of both the Treasurer and the Group Chairman, and such disbursements must be accounted for to the satisfaction of the Administrative Committee at its next meeting.

The Treasurer shall be responsible for developing the yearly budget. He shall study the finances of the Group and shall be responsible to the Administrative Committee for the financial planning that will ensure the financial stability of the Group. He shall explore all avenues that might increase the revenue of the Group at the end of each fiscal term. The Treasurer shall report annually to the Administrative Committee on the balance of the accounts of his office. He shall also report on the accounts of his office at each meeting of the Administrative Committee.

Article V - Organization

Section 1: The Group shall be managed by an Administrative Committee consisting of 12 members-at-large elected and serving terms as prescribed plus ex-officio members in the number and serving terms as prescribed.

Section 2: The terms of office of the members-at-large of the Administrative Committee shall be for three years, one third of the members being elected each year in accordance with the Group Bylaws. Only two consecutive terms are permitted but eligibility is restored after a lapse of one year. Vacancies occurring within a term shall be filled by action of the members-at-large of the Ad-

ministrative Committee.

Section 3: In the absence of a petition for an election by letter ballot, the forthcoming vacancies among members-at-large shall be filled by vote of the current members at large of AdCom, and other forthcoming vacancies shall be filled as specified hereinafter. No person shall be placed on any ballot until he has agreed to serve if elected.

A nomination for a member-at-large or any other member of the Administrative Committee may be made by petition signed by at least 1 percent of the total membership of the group and submitted to AdCom for due consideration.

An election to fill forthcoming vacancies among the members-at-large may be called for by a petition signed by 10 percent of the total membership of the Group. Such a petition shall be submitted to the AdCom which then shall arrange for an election by letter ballot as prescribed in the Bylaws. Election shall be based on the highest number of votes and then in descending order until the forthcoming vacancies are filled. Ties shall be broken by the current members-at-large of the AdCom.

An election to fill a forthcoming vacancy of one or more Chairmen of Technical Committees, Translation Committees, Standing Committees, or Secretary or Treasurer may be called for by a petition signed by 10 percent of the total membership of the Group. Such a petition shall be submitted to the AdCom who then shall arrange for an election by letter ballot as prescribed in the Bylaws. The person for each office receiving the largest number of votes shall be elected. Ties shall be broken by current AdCom.

Section 4: All current members at large of the Administrative Committee shall annually elect a Chairman and Vice Chairman for the following year from the members-at-large whose term of office continues through the following year. Their terms of office shall be for one year or until their successors take office. In the absence or incapacity of the Chairman, his duties shall be performed by the Vice Chairman.

Section 5: The Chairman shall supervise the affairs of the Group and shall speak for the Group on all matters not specifically designated to others.

Section 6: The Chairman-elect as soon as expedient after election shall appoint a Secretary and a Treasurer to serve for a term of one year or until their successors take office. These appointments are subject to approval by the current Administrative Committee.

Section 7: The Secretary shall be responsible for sending out notices concerning official Group business and shall prepare the agenda for and record and promptly distribute the minutes of all meetings of the Administrative Committee and he shall make such reports of his activities as may be required by the Administrative Committee.

The Treasurer shall perform the duties as prescribed in Article IV, Section 4 of the Constitution.

Section 8: The Chairman, as soon as expedient after his election, shall with the approval of the current Administrative Committee appoint such Chairmen and Vice Chairmen of the Technical Committees, the Translation Committees and the Standing Committees as prescribed in the Group Bylaws (except as provided in Article V, Section 3). Other committees may be authorized by vote of the Administrative Committee and shall be appointed by the Chairman. Committee members thus appointed shall serve until their successors are appointed or the committees dissolved. The current Technical Committees and Translation Committees may nominate proposed Chairmen and Vice-Chairmen for consideration. Vacancies at other times may be filled in the same manner.

Section 9: The Chairman is an ex-officio member of all Group Committees and as a member of the IEEE Committee on Professional Technical Groups shall represent the Communication Technology Group at all meetings of that committee either in person or by duly delegated alternate or by instructed proxy.

Section 10: The administrative and fiscal years of the Group and terms of all elected and appointed officers and committees shall be as specified in the Bylaws.

Section 11: There shall be an annual meeting of the Administrative

Committee held in connection with a major conference or convention. Other meetings of the AdCom shall be held at such times as are deemed necessary. Meetings of the AdCom may be called by the Chairman of the Group or upon the request of seven members of the Committee.

Section 12: To carry on the normal business of the Group between meetings of the AdCom there shall be an Operating Committee consisting of the Group Chairman, Vice Chairman, Secretary, Treasurer and four members from the AdCom (at least two of who shall be members at large) appointed by the Group Chairman with the approval of the Administrative Committee.

Section 13: Twelve Members of the Administrative Committee and five members of the Operating Committee shall constitute their respective quorums.

Section 14: A majority vote of the members of the Administrative Committee or the Operating Committee attending their respective meetings shall be necessary in the conduct of business except as otherwise provided in this Constitution or the Bylaws.

Section 15: Business of the AdCom and of the Operating Committee may be handled by correspondence, telephone or telegraph where in the opinion of the Chairman, matters requiring action can be adequately handled in that manner. A majority vote of all the members of the particular Committee is necessary for approval of actions so handled except in matters where a greater percentage would be required at a regular meeting.

Article VI - Group Meetings

Section 1: The Communication Technology Group may hold meetings, conferences, symposia, or conventions either alone or in cooperation with other units of IEEE or other technical organizations, provided in all cases that prior approval of the proposed date and location is secured from the IEEE Executive Committee. The Group should sponsor at least one technical conference of national scope each year.

Section 2: Technical meetings, conferences, symposia and conventions of the Communication Technology Group shall be open on an equal basis to all members of IEEE.

Section 3: Governmentally classified material shall not be included in any program sponsored by the Communication Technology Group of IEEE. If such material is included in a part of a program in which the Group is cooperating with another technical society, public disclaimer of IEEE sponsorship of that part must be made.

Article VII - Publications

Section 1: The Communication Technology Group shall, subject to the editorial and fiscal policies of IEEE, publish Transactions and a Newsletter and may issue other publications.

Section 2: The Transactions of the Group shall be its sole technical journal.

Section 3: The Chairman of the Group shall appoint, with the approval of the AdCom, an Editorial Manager who shall be the Chairman of the Standing Committee on Publications. The Editorial Manager shall be responsible for carrying out the mechanics of processing manuscripts obtained by the means prescribed in the Bylaws.

Section 4: All members of the Group shall be entitled to receive, in partial consideration of their membership fee, the regular periodical publications of the Group.

Article VIII - Bylaws

Section 1: Bylaws governing the conduct of the affairs of the Communication Technology Group, consonant with the governing laws and policies of IEEE and with this Constitution of the Communication Technology Group, may be adopted and amended by a two-thirds vote of the AdCom provided full notice of the proposal of a Bylaw or amendment is given at least 20 days in advance to all members of the Administrative Committee.

Section 2: Communication Technology Group Bylaws may be voted on by letter ballot either by members unable to attend a scheduled

meeting of the AdCom, or by all of its members in case the Chairman declares such a procedure to be desirable and provides a minimum of 30 days for response.

Section 3: Bylaws or amendments thereto shall become effective only after a copy is deposited with the Chairman of the IEEE PTG Committee and its Secretary and suitable announcement has been made to the Group members through at least one of the Communication Technology Group periodical publications.

Article IX - Amendments

Section 1: Amendments to this Constitution may be initiated either by petition submitted by 100 members to the Administrative Committee of the Group, or by the Administrative Committee. Such amendments, after approval by two thirds of the AdCom, will be submitted to the Committee on Professional Technical Groups for information and to the Executive Committee of IEEE for approval. After such approval, the proposed amendment shall be publicized in at least one of the Group publications, with notice that it will go into effect unless ten percent of the Group members object within 30 days. If objections in such numbers are not received in such time, the amendment is considered as enacted. If objections in such quantity are received, a copy of the proposed amendment shall be mailed with a ballot to the members of the Group at least 30 days before the date appointed for return of the ballots with a statement of the time limit for their return. Approval of at least two-thirds of those voting shall be necessary for enactment of the amendment.

2.3 THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS - PROFESSIONAL TECHNICAL GROUP ON COMMUNICATION TECHNOLOGY - BYLAWS

1. These bylaws provide detailed guidance for the management and supervision of the Professional Technical Group on Communication Technology in accordance with the Group Constitution. Amendments may be made in accordance with Article VIII of the Constitution.

2. **Membership:** There shall be only one grade of Group membership available to all members of IEEE based on the regular payment of the annual fee as prescribed in Bylaw 11.1, except as prescribed in 2.1 and 2.2.

2.1 **Honorary Life Members:** Such membership, exempt from the payment of the annual fee, shall be based on the recommendation of the Group Awards Committee, and the endorsement of the AdCom.

2.2 **Students:** Special annual fees may be made for students.

3. **Administrative Committee:** Article V, Section 1 of the Constitution provides that the AdCom shall consist of 12 elected members-at-large plus ex-officio members. Article V, Section 13 provides that a quorum shall be 12 members without distinction between members-at-large and ex-officio members and that all members shall have an equal vote within the provisos of Article II, Section 2, except as otherwise specified.

3.1 The following shall be ex-officio members of AdCom:
(a) The retiring Chairman of the AdCom for a period of two years.
(b) The Chairmen of Technical Committees.
(c) The Chairmen of Translation Committees.
(d) The Chairmen of Standing Committees. This will include the Chairmen of existent Adhoc Committees.
(e) The Secretary and Treasurer of the Group.

3.2 Unless otherwise provided, a majority vote of Members present at an AdCom Meeting shall be sufficient for the conduct of business. (See Bylaw 10)

3.3 Business of the AdCom may be conducted in accordance with Article V, Sections 13, 14 and 15, of the Constitution of the Communication Technology Group.

3.4 The Operating Committee shall consist of the Chairman, Vice Chairman, Secretary and Treasurer of the AdCom and four other members of the AdCom (at least two of whom shall be members-at-large) appointed by the Chairman with the approval of the AdCom.

3.5 The above Bylaws, 3.1 to 3.4 inclusive, shall apply beginning

July 1, 1965.

3.6 The following interim organization, specified in Bylaws 3.6.1 to 3.6.9 inclusive, shall be effective from July 1, 1964 until June 30, 1965 inclusive:

3.6.1 The officers of the interim AdCom shall consist of the following:
(a) The Chairman and Secretary of the Communication Division shall take similar posts on the AdCom.
(b) The Vice Chairman and Treasurer of PTG Communication Systems shall take similar posts on the AdCom.

3.6.2 The interim ex-officio members of the AdCom shall consist of the following:
(a) The Vice Chairman of the Communication Division.
(b) Senior Past Chairman of Communication Division and PTG Communication Systems.
(c) Junior Past Chairmen of the Communication Division and PTG on Communication Systems will continue on the AdCom until June 30, 1966.
(d) Chairmen of the Technical Committees.
(e) Chairmen of the Standing Committees.
(f) Chairmen of the Translation Committees.

3.6.3 The interim members-at-large shall consist of six members chosen from the existing AdCom of PTG Communication Systems and six chosen from the Communication Division Committee with the following proviso:

If in this interim period other PTG's or TC's shall join PTG Communication Technology, the AdCom at their discretion may elect a member of those PTG's or TC's to serve as an Interim-Member-at-Large.

3.6.4 The terms of office of the interim members-at-large shall be as follows:
(a) One third to serve for a period of three years.
(b) One third to serve for a period of two years.
(c) One third to serve for a period of one year.

3.6.5 The Chairmen and membership of the existing Technical Committees shall continue to serve.

3.6.6 The Chairmen and membership of the existing Translation Committees shall continue to serve.

3.6.7 The Chairmen of the Technical Committees and Translation Committees shall invite applicants from members of the PTG on Communication Systems to participate in committee activities.

3.6.8 The interim Chairmen of the Standing Committees shall be appointed by the Chairmen with the approval of the AdCom and after considering recommendations of the outgoing AdCom of PTG Communication Systems. Appointments of additional members to these committees shall be made during the interim period.

3.6.9 The interim Operating Committee shall consist of the Chairman, Vice Chairman, Secretary and Treasurer of the Administrative Committee and four other members of the AdCom (with at least two members at large) selected by the Chairman with the approval of the Administrative Committee.

4. Standing Committees: Standing Committees shall be appointed by the Group Chairman with the approval of the Administrative Committee. It shall be discretionary with the Group Chairman to appoint any part or all of a standing committee or to appoint the Chairman only of a committee and request the latter to appoint additional committee members. The standing committees are:

- (a) Chapters
- (b) Publications
- (c) Meetings
- (d) Membership
- (e) Awards
- (f) Nominating

Rosters of these committees shall be prepared by the respective chairmen and forwarded to the Administrative Committee.

4.1 The term of office of each chairman and member shall be for one year or until a successor is appointed.

4.2 Special or ad hoc committees may be created by the AdCom. For each case, the AdCom shall specify the number of members of the committee. Adhoc committees shall have a term of one year unless the Administrative Committee acts on the expiration date.

5. Technical Committees: Technical Committees shall be appointed by the Group Chairman with the approval of the AdCom. A current Technical Committee may suggest a Chairman and a Vice Chairman for the succeeding year. The Group Chairman shall appoint the Committee Chairman and Vice Chairman and request the former to suggest the additional members of the committee. Committee rosters and scopes shall be prepared for the AdCom.

The Technical Committees are:
(a) Communication Switching
(b) Communication Theory
(c) Data Communication and Telegraph Systems
(d) Radio Communication
(e) Space Communication
(f) Wire Communication
(g) Telemetry
(h) Communication System Disciplines

5.1 The term of office of each Chairman and member shall be for one year or until a successor is appointed.

5.2 Additional Technical Committees may be formed at the discretion of the AdCom or proposed by petition of 50 members of the Group. Such petitions shall be forwarded to the AdCom for action.

6. Translation Committees: Translation Committees shall be appointed by the Chairman with the approval of the AdCom. These committees will coordinate the translation, publication and other matters pertaining to foreign technical journals of interest to the members. Rosters of the Committees shall be prepared by the Chairmen for the Administrative Committee.

The Translation Committees are:
(a) "Telecommunications and Radio Engineering" Review
(b) "Radio Engineering and Electronic Physics" Review
(c) "Electronics and Communications in Japan" Review

6.1 The term of office of each chairman and member shall be for one year or until a successor is appointed.

6.2 Additional Translation Committees shall be created by the AdCom when the need and financial return appear to warrant them.

7. Nomination and Election of the Administrative Committee: The Nominating Committee shall prepare a list of at least two nominees each for forthcoming vacancies in the Members-at-large of the AdCom in the numbers and for the terms prescribed in Article V, Section 2, of the Constitution. This action shall be taken prior to March 10. Petitions in matters pertaining to the election of members-at-large may be submitted as prescribed in Article V, Section 3, of the Constitution and shall be submitted to the AdCom by March 1. Election shall be concluded before June 1.

7.1 Election of members at large shall be by secret ballot of the current members at large of the AdCom. Each eligible member shall have one vote for each member to be elected. The result shall be based on the highest number of votes and then in descending order until the forthcoming vacancies are filled. Ties shall be broken by the AdCom. Election results should be transmitted through the Group Chairman to the IEEE PTG Secretary.

7.2 The terms of office of the elected officers shall be for one year commencing July 1. The Chairman and Vice Chairman may be re-elected to a second term of one year. They shall then not be eligible for election unless there is a lapse of at least one year.

7.3 All officers shall continue to serve until their successors take office.

8. Publications: The publications of the Group shall be as prescribed in Article VI of the Constitution.

8.1 Manuscripts shall be of the solicited and unsolicited types. Solicitation of papers shall be only by invitation of one of the Technical Committees of the Group.

8.2 Papers will be published in the Transactions on the basis of individual merit alone and the worthiness of all material submitted for publication or solicited for publication shall first be determined by the cognizant Technical Committee before publication.

8.3 Publication of a paper in the Transactions shall not necessarily allow presentation of the paper before a meeting of the Group. Worthiness shall still be determined as required in the Bylaw 8.2.

8.4 A cognizant Technical Committee shall consider every paper presented before national meetings of the Group and session sponsored by the Group at the IEEE International Convention to determine worthiness for Transaction publication.

8.5 When a decision to publish or not to publish is made locally, the financial responsibility for such publication of papers shall be solely the province of the Chapters, Sections, Regions or other units sponsoring such meetings. Such publications may be in the form of Proceedings of the meetings or individual conference papers.

8.6 At national meetings of IEEE the publications procedure shall be consonant with IEEE policies. The Group through its Technical Committees will offer guidance in the choice of papers to be presented and in soliciting papers for these meetings.

8.7 Editorial expenses shall be subject to the approval of the Administrative Committee and the Editorial Manager shall be responsible for adequate fiscal planning of the publication program.

8.8 The Editorial Manager shall make provisions to gather information and items of interest pertinent to the membership of the group and shall publish these in a Newsletter at regular intervals.

9. Group Funds: The Group may raise funds as prescribed in Article IV of the Constitution and in the IEEE Bylaws, rules and regulations.

9.1 Billing and receipt of the members' annual fees shall be via the IEEE Membership and Fiscal Departments. All other fiscal affairs shall be handled through the office of the Group Treasurer.

The general committee for a symposium or technical conference may with the advice and consent of the Administrative Committee authorize the meeting treasurer to open an account to be used for the deposit and disbursements of funds related to the meeting. In each case the Administrative Committee shall be advised of the name of the bank, anticipated size of the account, the names of the account signatories and the arrangements for bonding and insurance.

9.4 Group members assigned to general committees arranging technical conferences, meetings or symposia co-sponsored by one or more additional groups, technical societies, etc., shall be aware of the limitation imposed by Article VI, Section 3, of the Constitution. Further, they shall report to the Administrative Committee as soon as possible on the financial arrangements and safeguards for that event.

9.5 In view of the support of Group sponsored meetings, a share of the surplus funds accrued from such meetings shall be remitted to the Treasury of the Group. The allocation of surplus funds shall be defined in the statement of financial arrangements before the meeting is approved by the Administrative Committee.

10. Group Business: Members of the AdCom shall receive notice of any meeting no less than 20 days prior to the scheduled meeting date. If, at a duly called meeting, a quorum is not present, actions may be formulated but shall not be effective unless ratified by mail vote or at a subsequent meeting at which a quorum is present. In the event of a vote by mail, the Secretary shall mail the minutes to each Administrative Committee Member, who shall register approval or disapproval of any or all actions within ten days of receipt of such minutes or he shall be considered as having ratified.

The Chairman may initiate action by direct telephone or telegraph action to each AdCom member for necessary approval or disapproval. All such actions must be confirmed in writing within seven days by both the Chairmen and at least a majority of all the

members of AdCom, except that two thirds are required whenever this would be required at a regular meeting.

3. CHAPTER REPORTS

3.1 3.1 Baltimore - No report.

3.2 Boston - The Boston chapter met jointly with the PTG-MTT and PTG-AP on September 26, 1963 at MIT. The subject "Terrestrial Millimeter Wave Lengths" was presented by Dr. G. E. Weibel of the General Telephone & Electronics Laboratories.

The October 22nd, meeting was held jointly with the PTG on Information Theory at the Sylvania Company in Waltham. "Dipoles in Orbit - A Progress Report on the WESTFORD Experiment" was presented by Mr. Walter E. Morrow, Jr. of the MIT/Lincoln Labs.

The chapter met on December 11th, to hear Mr. Julian Z. Millar, Assistant Vice President of the Western Union Telegraph Company, discuss "Automatic Message Networks". His talk included the design considerations, operation and general problems encountered in the existing store-and-forward computer control message network, AUTODIN, and the Western Union 301 computer switching system.

3.3 Cape Kennedy (Cape Canaveral) - No report.

3.4 Chicago - On January 9, 1964, the chapter met in joint session with the PTG chapter of Space Electronics and Telemetry, and the Technical Committee on Communications, to hear Mr. Edward J. Leonard, ITT-Kellogg, discuss new switching techniques. His talk was entitled "Applicability of Space Division Switching Technique to the Solution of Current Switching System Problems." Mr. Leonard is currently Product Executive - Switching for ITT-Kellogg. He had earlier been director of the switching systems department and was responsible for research, development, engineering, manufacture, and installation of solid state and electromechanical switching systems and products.

3.5 Dallas - Dr. R. B. Marsten, Manager, Communication Systems, RCA Astro-Electronics Division, Princeton, N. J., addressed the chapter on January 28, 1964, with 45 members and guests attending. Dr. Marsten's subject was the "Project RELAY Satellite Program." He presented the basic requirements, the orbital characteristics, and the system performance of the satellite. Considerations pertaining to design of the satellite and various subsystems were also reviewed, including environmental restriction. The presentation covered the post-launch behaviour of the satellite, the experiments which have been performed, and the commercial demonstrations for which it has been used.

The Dallas chapter will meet next in March 24th, when Dr. Dayton D. Eden, of Texas Instruments, will discuss LASERS, and their problems of modulation and demodulation.

3.6 Denver-Boulder - No report

3.7 Florida West Coast - This first chapter meeting of the year was co-sponsored by the FWC section, and held on January 15, 1964, in the Fort Harrison Room of the Jack Tar Harrison Hotel, Clearwater. The event was preceded by a fellowship hour and dinner with 32 members and guests present.

At the technical meeting, attended by 49 persons, Dr. Jack H. Crow, department manager FM/FM Telemetry, Electro-Mechanical Research, Inc., Sarasota, Florida, presented a very informative talk on "FM Data Systems." He described typical FM data systems of the type used for transfer of data and information from satellites and guided missiles, while pointing out the advantages and disadvantages of such systems. A brief history of FM data systems was reviewed to provide background material. An approximate analysis of a typical FM system was described. Present FM standards and several proposed revisions were also discussed.

3.8 Long Island - Dr. Donald L. Schilling, Assistant Prof. of Electrical Engineering at the PIB, gave a paper on "Phase Locked Loops and Frequency Discriminators Using Feedback". The meeting was held on January 28, 1964, at the Polytechnic Graduate Center, Route 110, Farmingdale, N. Y. Dr. Schilling discussed the theoretical and practical considerations and compared the results between data derived from both.

3.9 Los Angeles - No report

3.10 Mohawk Valley (Rome-Utica) - The Mohawk Valley Engineers Week Banquet held on February 19, 1964 was sponsored by the Mohawk Valley chapter and 24 other engineering societies within the area. Dr. W. L. Everitt, Dean of Engineering, University of Illinois, lectured on "Engineering - A Learning Profession". The event was held at the Twin Ponds, New York Mills, N. Y. The next meeting will be held on April 7th, when Dr. Z. Prihar, of the Philco Corp., will speak on "Communications System Design."

The new Chapter Chairman is:

A. A. Kunze (EMPA)
Rome Air Development Center
Griffiss A. F. B.
Rome, N. Y.

3.11 Monmouth - Mr. J. M. Wozencraft presented a talk on "Engineering Code Communication Systems" on January 15, 1964 at the Firehouse in Little Silver, N. J. He discussed experimental and theoretical analysis of communication systems as a function of transmission and error rates. The implication of these two factors in modulation and demodulation schemes was noted, and applied to deep space communications and link-distance data transmission over telephonelines.

3.12 Northern New Jersey - The second meeting of the season was held on November 19, 1963 at the ITT Federal Labs. Auditorium in Nutley. Mr. B. V. Blom, ITT Communication Systems, gave a presentation on "Random Access Discrete Address - A New Tool in Communications". The talk covered various addressing schemes and some advantages and disadvantages inherent with RADA Systems. Approximately 30 people attended this event.

"Channel and Formant Vocoders for Speech Bandwidth Compression" was presented on January 23, 1964 by Dr. Rober M. Golden and Dr. Cecil H. Coker, both of the Acoustic Research Department of the Bell Telephone Labs. The meeting, attended by 65 people, was held at the Arnold Auditorium, BTL, Murray Hill, N. J. The speakers presented the state-of-the-art technology of Vocoders and demonstrated some results of their research by playing a number of tapes. The next meeting will be on Tuesday, April 21, 1964, with a Panel on "Systems Engineering". Moderator: Dr. E. J. Baghdady.

Panelists: Mr. J. W. Halina, ICS, Mr. S. Sobleman, Fairleigh Dickinson University, Mr. A. D. Hall, Bell Telephone Labs.

Time: 8:00 P. M.

Place: Garden State Plaza Auditorium, Paramus, N. J.

There will be a pre-meeting dinner at 6:00 P. M. at the Cambridge Inn, Garden State Plaza, Paramus, N. J.

Election of officers will be held at this meeting. The nominees are:

Chairman: Mr. R. D. Chipp, Chipp Associates
Vice Chairman: Mr. A. A. Roetken, Bell Telephone Labs.
Secretary: Mr. J. Harvey, Sichak Associates
Finance & Arrangements: Mr. M. Westheimer, ITT Communication Systems

Mr. Chipp is a Fellow of the IEEE and has wide communication experience over the past 30 years. He is a past Chairman of the New York section of the IRE and is a registered P. E. in several states. Mr. Chipp is currently with Rodney D. Chipp and Associates in Montclair, New Jersey.

Mr. Roetken is a Fellow of the IEEE and has been with the Bell Telephone Labs. since 1929. He is, at present, Radio Consultant at the BTL Electronics & Systems Research Center, Murray Hill, N. J. He has worked in areas relative to Radio Telephone, SSB equipment for Transoceanic Telephone Service and took part in developing the Bell System Wideband Microwave Network.

Mr. Harvey is a Member of the Technical Staff of Sichak Associates, Nutley, N. J. Prior to his association, he was with the ITT Federal Labs. where he worked on the engineering of major tropospheric scatter networks. He is a Senior Member of the IEEE and was Financial Officer of the PTG-CS Chapter for 1963-64.

Mr. Westheimer is at present a Member of the Technical Staff at ITT Communication Systems, Inc., Paramus, N. J., where he is responsible for the design of a major long haul communications project. Prior to 1962 he was Chief Engineer of Microwave Services International, Denville, N. J., where he was responsible for site

survey and frequency coordination of a transcontinental common carrier microwave network. He received his MEE in 1955 from PIB and has been active in the Chapter as Facilities Chairman for 2 years.

3.13 Oklahoma City - No report.

3.14 Omaha-Lincoln - No report.

3.15 Philadelphia - The chapter conducted a tour of the new WFIL studios on December 10, 1963. The joint sponsors were the PTG's on Audio and Broadcast, B & TV Receivers, Vehicular Communications, and the Communications Technical Division.

"The Future of Satellite Communications" was presented by R. H. Shennum, Head of Satellite Design, Bell Telephone Labs. on January 13, 1964. Mr. Shennum discussed current Telstar activities and future satellite communication services, including new theories, equipment and power sources. The meeting was held at the Engineers Club, 1317 Spruce Street in Philadelphia.

The Chapter met jointly with the Communication Technical Division on February 18th to hear a talk on "Factors Affecting Radio Relay Systems Reliability". Mr. D. G. Hymas of the RCA Microwave Department emphasized aspects of microwave propagation, since recent improvements in equipment design makes this the controlling factor.

"High Speed Transmission of Data Through the Use of Teletype equipment" was the topic of the March 10th meeting. Kenneth W. Sahn, Sales and Application Engineer of the Teletype Corporation was the guest speaker.

3.16 San Francisco - No report.

3.17 Seattle - The new chapter in Seattle had an astounding success in its first meeting, on October 30, 1963, when 71 members and guests heard Dr. John E. Mack review "Electronic Communications Switching Systems." Dr. Mack is with the Bell Telephone Labs. Holmdel, N. J.

3.18 Syracuse - No report.

3.19 Toronto - The chapter met jointly with the section on January 20, 1964 at DeHavilland Aircraft of Canada, to hear a talk on "Communications Satellites". Mr. Sidney Metzger, Manager, Engineering Division, Communications Satellite Corp., was the guest speaker. Mr. Metzger is a graduate of New York University and the PIB. He has had wide experience in communication systems designs for the "Tiros" and "Relay" satellites. His talk described the technical problems and future plans for the commercial communications satellites which are to become part of a global communications network under United States government sponsorship.

A meeting was held jointly with PTG-AP, PTG-MTT and PTG-VC on February 6th at the University of Toronto Hart House. Dr. Michiyuki Venohara of the Bell Telephone Labs., presented a talk on "Low Noise Parametric Amplifiers". The talk briefly reviewed the principles of the parametric amplifier in general terms and discussed the performance of several amplifiers built at Bell Telephone Labs. for satellite communication and radio astronomy applications. Based on these results as well as published material, the advantages and disadvantages of the parametric amplifier over the maser were discussed.

The Toronto chapter has been very active and credit is extended to its Chairman, J. R. Simpson, of Cushing and Neville, Toronto. The chapter met on February 27th, at the University of Toronto to hear K. R. Stock of R. H. Nichols Co., Ltd., give a presentation on "Current Development in Solid-State Supervisory Control, Alarm and Telemetering System". Solid-state techniques have had a profound influence on the supervisory control and telemetering field, and the majority of new systems being installed utilize solid-state circuitry in whole or in part. This paper discussed contemporary developments in coding techniques for maximum system security; bandwidth conservation; system configurations for specific applications, as well as the packaging and reliability aspects of current equipment.

3.20 Washington, D. C. - The Chapter is once more in operational status. The nominated slate of officers:

Chairman - John W. Worthington, Operations Research Division, Defense Communications Agency, who is National Treasurer of the PTG-CS, former National Chairman of the PTG-CS, and organizer first Chairman of the Rome-Utica PTG-CS Chapter.

Vice Chairman - Merle E. Floegel, Office of Satellite Communications, Federal Communications Commission, formerly Secretary, Vice Chairman, and Chairman of the Washington, D. C. Chapter of the PTG-VC.

Secretary - William M. Mazer, Senior Scientific Staff, ITT Intelcom, who is a member of the national PTG-CS AdCom, and organizer first Chairman of the Northern New Jersey Chapter of the PTG-

The Chapter met jointly on February 10th with the PTG's on Military Electronics and Space Electronics and Telemetry to hear a panel discussion on "Global Communications, Cable or Satellite?"

The moderator was Ralph L. Clark, Office of Emergency Planning. The panelists were Leonard Jaffe, NASA, and Herbert H. Schenck, U. S. Underseas Cable Corp.

Mr. Clark is, at present, Special Assistant to the Director of Telecommunications Management, Executive Office of the President. Mr. Jaffe has been with NASA for a number of years and is now Director of Communications and Navigation Programs in the Office of Space Science and Applications.

Mr. Schenck is widely known in international communications. He is, at present, Executive Vice President and General Manager of the United States Underseas Cable Corp., where he recently has been concerned with the planning and implementation of a major ocean cable extension project for the Atlantic Missile Range.

3.21 Prospective Chapters - Information on how to organize a chapter of PTG-CS has been sent to group members in the Twin Cities (Minneapolis-St. Paul) by Bernard Goldberg, Chairman of the Chapters and Membership committee. No further word has been received from Detroit, Mich., Phoenix, Ariz., or the Netherlands, as to the formation of new chapters in those locations.

Mr. Goldberg also reports that IEEE members in Pittsburgh, Pa. have been recently contacted regarding possible chapter formation, since some of their recent meetings have been communication systems oriented. It appears that there is an adequate number of members there to support a chapter.

4. COMING MEETINGS.

4.1 1964 IEEE International Convention - The 1964 International Convention is being held from March 23 through 26 at the New York Hilton Hotel and New York Coliseum in New York City. Encompassing the full scope of IEEE technical activities for the first time, the Convention features a 20 per cent increase in number of technical papers as well as about the same increase in number of technical papers as well as about the same increase in number of exhibitors. This year's Convention theme is "A Glimpse in the Future."

The world's largest technical meeting and exhibition is expected to draw an attendance of more than 75,000 engineers and scientists from 40 countries. Convention headquarters will be in a new location, the recently completed New York Hilton Hotel, situated a convenient six blocks from the Coliseum.

The increased technical program, consisting of 320 papers covering the latest developments in every area of electrical and electronic engineering, will be presented in 64 technical sessions. The high point of the program will be a special evening symposium on "Modular Magic" to be held Tuesday evening, March 24 at the Hilton. A panel of outstanding authorities, moderated by Patrick Haggerty, President, Texas Instruments Inc., will discuss the impact of processes and techniques for fabricating microelectronic integrated circuits.

More than 1000 exhibitors will display some \$20 million worth of the latest electrical and electronic equipment, most of it for the first time. The Show will be in two locations with electrical equipment on display at the Hilton and electronic exhibits housed on all four floors of the Coliseum.

Charles F. Horne, President, General Dynamics/Pomona Div., and President, Electronic Industries Association, will be the principal speaker at the Annual Banquet to be held on March 25 in the Grand Ballroom of the Hilton. This year's banquet will also feature the presentation of the following major IEEE awards: Medal of Honor, Edison Medal, Founders Award, Lamme Medal, and the Education Medal. In addition, the 118 recently elected fellows will be recognized. (See Section 7 - Ed.)

4.2 Globecom VI - International Symposium on Global Communications - Theme: "Communications and Computers - Space Age Partners".

Globecom VI will be held June 2, 3, and 4, 1964 at the University of Pennsylvania and the Sheraton Hotel, Philadelphia, Pa. This notice is provided to enable early plans. Inquiries may be directed to the Chairman of the Sponsor's Committee, who is: William McLaughlin, RCA, Building 1-5-4 Communication Systems Division, Camden 2, N. J.

The highlight of the technical program will be a general session held in the afternoon of Tuesday, June 2, 1964.

- (1) Keynote - R. R. Hough, VP and Chief Engineer, ATT
- (2) Mr. R. J. Halsey, Director of Research, GPO, England, who will discuss the British Commonweath Cable System.
- (3) Mr. Shigeru Yonezawa, Executive V. P., NITPC, Japan, who will discuss the unique aspects of Far Eastern Communications.
- (4) Dr. E. M. Deloraine, ITT, France, who will discuss the Continental Telephonic System.

Tuesday evening will feature a cocktail party and banquet.

There will be three parallel sessions each morning, 9-12 a. m. and each afternoon, 2-5 p. m., except Tuesday afternoon when the General Session will take place.

Technical Program

Technical Sessions and Chairman

- (1) Traffic Analysis and Systems Simulation
Col. J. L. Millar, Western Union, New York, N. Y.
- (2) Computer Control of Communications
E. Potok, IBM, Kingston, N. Y.
- (3) Cable Transmission
T. Scandlyn, ATT, Washington, D. C.
- (4) Radio Transmission
A. Kandoian, ITT Federal Labs., Nutley, N. J.
- (5) Data Transmission Systems
E. Becken, RCA Communications, New York, N. Y.
- (6) Communications, Coding and Modulation Theory
Prof. R. Berkowitz, Moore School, U. of Penna., Phila., Pa.
- (7) Commercial Satellite Communications
R. Riehs, USAERDL, Ft. Monmouth, N. J.
- (8) Military Command and Control Systems
Major General J. Bestic, Defense Communication Agency, Arlington, Va.
- (9) Switching Systems
W. Higgins, Bell Telephone Labs., Holmdel, N. J.
- (10) Military Satellite Communications
Col. R. Goodrich, Defense Communications Agency, Arlington, Va.
- (11) Industrial Communication and Control
M. Long, Philco Corp., Blue Bell, Pa.
- (12) Communication Data Handling and Processing
S. Dission, Burroughs Corp., E. Whiteland Township, Pa.
- (13) Economic Factors in System Design
D. H. Trotter, General Telephone & Electronics Corp., New York, N. Y.
- (14) Input-Output Technology
R. R. Bender, IBM, Poughkeepsie, New York
- (15) Traffic Routing and Control
D. R. Helman, ITT Federal Labs., Nutley, N. J.

Panel Discussions

- (1) American Standard Code
D. Perry, ITT Communication Systems, Paramus, N. J.
- (2) Operational Concept of World Wide Satellite Communication Systems, A. Laport, RCA, Princeton, N. J.
- (3) Impact of Modern Communications and Computers on Society
Prof. R. M. Fano, MIT, Boston, Mass.

The plans announced herein are firm and additional programs will be announced as they are determined. There also will be appropriate exhibits. The exact details as to time, place, banquet cards, will be announced in the formal notices.

The complete Globecom committee includes:

Chairman - E. Cary Clark, Burroughs Corp.
Vice Chairman - C. Raymond Kraus, Bell, Tel. Co. of Pa.
Secretary - T. Jack Heckelman, Philco Corp.
Treasurer - Milton Berkowitz, General Electric Co.

Committees

Technical Program

Richard Guenther, RCA

International Arrangements

Robert M. Caruthers, International Tel. & Tel. Corp.

Local Arrangements

Henry G. Sparks, University of Penna.

Publicity-Exhibits

Aaron Batchelor III, Burroughs Corp.

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W. McLaughlin, Chairman, IEEE, PTG-CS
E. Fasko, IEEE, Philadelphia
H. Rappaport, IEEE Philadelphia
R. H. Hellman, IEEE, CTD
R. McSweeney, IEEE, PTG-CS
D. Perry, IEEE, PTG-EC
J. G. Brainerd, University of Pennsylvania

Ex-Officio Members

R. H. Maier
D. Rau
D. C. Ports
H. C. A. Van Duuren

Public Relations-Exhibits Consultant

Lewis Winner

4.3 NATCOM X - Tenth National Communications Symposium

NATCOM will celebrate its Tenth Anniversary on October 5, 6, 7 at Utica, N. Y. The Symposium will be sponsored by the new Professional Technical Group on Communication Technology of IEEE. The Symposium Committee is as follows:

General Chairman

R. F. Weil

Technical Program Chairman

J. L. Ryerson

Technical Program Committee

Vice Chairman

G. E. Brunette

Special Arrangements

H. Burton

Session Organizer Chairman

F. Darrow

Classified Program Chairman

H. J. Crowley

(see calls for papers, section 5.4, for further details - Ed.)

5. CALLS FOR PAPERS

5.1 1964 Western Electronic Show and Convention (WESCON) August 25-28, Los Angeles, California.

The IEEE Summer General Meeting will be held simultaneously and in conjunction with this important West Coast Conference. Authors desiring to have papers considered for inclusion on the program of technical sessions should submit the following materials by April 15, 1964:

- (1) Three copies of a 100 to 200 word abstract, including title of the paper, name, company affiliation, and address of the author.
- (2) Three copies of a 500 to 1,000 word summary of the paper which identifies the related work and extent of new contributions in the field.
- (3) Indication of the technical field in which the paper falls.

Papers in all electrical and electronics fields will be considered for the 1964 WESCON program.

Any necessary military or company clearance of papers must be granted before submission of the abstracts. Address all materials to:

Dr. Robert R. Bennett
Technical Program Chairman, 1964 WESCON
Suite 1920
3600 Wilshire Boulevard
Los Angeles, California 90005

5.2 1964 MIL-E-CON

The IEEE International Convention on Military Electronics (MIL-E-CON 8) will be held in Washington, D. C., on September 14, 15, and 16 at the Shoreham Hotel. The general theme of the meeting will be, "Changing Horizons in Defense Electronics." All papers will be unclassified, clearance will not be required for attendance, and the authors will be responsible for all necessary approval by sponsoring agencies. There will be two types of sessions: invited presentations and sessions of contributed technical papers.

Invited sessions include general areas of management, new national requirements in electronics, interdependence of defense and industry and other matters of interest to electronic engineering.

Contributed sessions of technical papers will be held in parallel with the invited sessions. The technical papers will be limited to ten minutes for presentation with additional time for discussion. Interested authors are invited to present new and unpublished designs, developments, research and ideas in the fields of electronics and its applications. Typical areas of current interest are: microelectronics, communications, detection, location, instrumentation, navigation, lasers, etc. In order to be considered for acceptance, three copies each of a 500 word abstract of the proposed paper, together with a biographical sketch of the author, must be submitted before 1 May 1964 to H. M. O'Bryan, Chairman, Technical Program Committee, Bendix Corp., 1730 K Street, N. W., Washington D. C. 20006.

5.3 Third Canadian Symposium on Communications

The Third Canadian IEEE Symposium on Communications will be held in Montreal, Quebec, on Friday and Saturday, September 25 and 26, 1964, and will take place in the Convention Rooms of Montreal's Queen Elizabeth Hotel.

Technical papers are solicited on subjects of interest to engineers and scientists working in the communications field, giving a broad interpretation to the term "Communications". These papers should preferably describe principles, techniques or developments which have novel and informative aspects. Papers describing devices, circuits equipments or systems, as well as purely theoretical papers are welcome as long as they meet these requirements.

A partial list of subjects of interest is: Surface, subsurface, or space communication systems, telemetry and remote control, data handling, coding, adaptive communications, biological or psychological aspects of communications; and devices, techniques, theory or operating experience connected with these. (Speakers on the more obscure aspects of these subjects are asked to bear in mind the non-specialized nature of some of the audience in preparing their final presentations.)

Original papers not previously presented are preferred, but not mandatory. However, in their summary authors should mention any previous publication of the same material. The time allotted for each presentation will be 30 minutes, including a 5 to 10 minute discussion period.

Presentation of about 24 papers in 6 sessions during the two day period of the conference is planned.

Persons wishing to present papers are requested to submit the title and a 350 word summary by April 15, 1964, for consideration and selection by the Technical Program Committee. A short biographical note should be included also. Authors are reminded that Government or Company permission may be necessary for presentation of certain material.

The authors of accepted papers will be advised by May 15, 1964, at which time they will be requested to forward a complete manuscript of their paper including illustrations, by July 15, 1964. It is intended to publish Symposium Proceedings which will be sold at a nominal price during the Symposium.

The 350 word summaries and biographical notes referred to, should be forwarded in triplicate before April 15, 1964, to: Dr. F. G. R. Warren, Technical Program Canadian IEEE Symposium on Communications, P. O. Box 802, Station B, Montreal, Quebec, Canada

5.4 NATCOM X - Papers for presentation at the Tenth National Communications Symposium, sponsored by the new IEEE Professional Technical Group on Communication Technology, are solicited covering all new, novel or timely phases of communications. This year's symposium will highlight communications subjects in the areas of systems, equipments, techniques and associated fields. Typical areas are:

Space & Satellite Communications
Tropospheric Scatter
Hardened Communications
Data Processing and Transmission
Communications Theory
Communications Antennas
Infra Red and Light Comm.
Civil and Military Comm.

In addition, papers may cover communication considerations of propagation, microelectronics, computers, interference, economics, security, reliability, spectrum utilization, limitations and interfaces with other disciplines.

Five copies of 100 word abstracts and five copies of 500 word summaries, together with author's name, position title, company affiliation, and brief biography, should be submitted before 1 June, 1964 to:

Mr. Joseph L. Ryerson, Technical Program Chmn.
Director of Communication s(EMC)
Rome Air Development Center
Griffiss Air Force Base, N. Y.

Author's of papers which are related to work performed under a government contract are reminded that it is the author's responsibility to receive appropriate DOD clearance for presentation, through the cognizant government agency.

Concurrent with the three-day Communications Symposium, classified sessions, under the auspices of the Directorate of Communications, Rome Air Development Center, are planned. Paper limited to CONFIDENTIAL are solicited, each author being responsible for obtaining written authority from the sponsoring or cognizant agency to present the paper. Five copies of UNCLASSIFIED 150 word abstract of the Confidential papers in the above areas, together with author's name, position title, company affiliation, and brief biography, should be submitted to:

Mr. H. J. Crowley
(RAUO), Rome Air Development Center
Griffiss Air Force Base, N. Y.

(If an UNCLASSIFIED abstract of the classified paper cannot be prepared, a classified abstract will be accepted.)

All papers are to be submitted in English. Authors must advise the Technical Program Chairman if any paper will have been presented elsewhere or published prior to the Symposium. Authors will be advised of acceptance of papers about 1 July after which a complete manuscript will be required by 1 September to permit inclusion of the paper in the Convention Record to be distributed at the Symposium. Inclusion of all papers and unclassified abstracts of classified papers in the Symposium Convention Record will not preclude possible appearance in either IEEE Proceedings or PTG Communication Technology Transactions.

6. ADMINISTRATIVE COMMITTEE

6.1 Notice of Meeting - The next AdCom meeting is scheduled for 9:30 A.M., Monday, March 23, 1964, at IEEE Headquarters, during the International IEEE Convention in New York City.

7. PTG-CS MEMBERS' COLUMN

This new feature was initiated in the last issue. Its purpose is to make announcements of a more personal nature, such as promotions, appointments, awards, or any other items which might be of interest to the general membership. The information should be sent to G. Karger, whose address appears on page 1.

7.1 Salute to Richard C. Benoit, Jr., new Fellow of IEEE - Our popular PTG-CS Secretary, Richard C. "Dick" Benoit, Jr., was recently voted the grade of Fellow of the Institute of Electrical and Electronics Engineers by the Board of Directors. His citation was "For contributions in the field of military electronics." The grade of Fellow is one of unusual professional distinction conferred only by invitation upon a person of outstanding and extraordinary qualifications and experience in the fields of electronics, communications and the allied branches of engineering or the related arts and sciences.

Mr. Benoit is Chief of the Telecommunications Branch of the Directorate of Communications, Rome Air Development Center, and is the author of numerous published scientific and technical articles in the field of electronics and communications. He served as a technical advisor to Headquarters USAF Europe in 1953 and 1955, is an Air Force member of the U.S. Delegation to NATO Telecommunications Conferences, is a United States Project Officer for Mutual Weapons Development Data Exchange Programs between the United States and various European NATO nations, and a U.S. Force technical advisor to the Spanish Air Force.

He was born in East Orange, N. J., and pursued studies at RCA Institutes and the Air Command and Staff College of the Air University. A World War II veteran, Mr. Benoit has been

actively associated with the fields of communications and electronics for the past 28 years, 23 of which have been in government service.

Mr. Benoit is Secretary of the IEEE PTG on Communication Systems, a past member of the Group's AdCom, a member of the Société Française des Electroniciens et des Radioélectriciens, the Armed Forces Communications and Electronics Association, and Chairman of the National Communications Symposium Board of Governors. He is past president of the Rome-Utica AFCEA Chapter, was General Chairman of the Mohawk Valley Management Seminar in 1961 and 1962, is a past Chairman of the Rome-Utica PTG-CS chapter of IEEE, was General Chairman for the 6th National Communications Symposium, and General Chairman of the Mohawk Valley Engineers' Week Observance in 1962 and 1963. He is listed in "Who's Who in the East" and is the recipient of three awards from the Rome-Utica IRE Section for outstanding contributions to IRE activities.

7.2 Homer Dudley of North Jersey Elected to Fellow - Mr. Homer Dudley, a member of the Northern New Jersey Chapter, has been elevated to the grade of Fellow in the IEEE by the Board of Directors. His citation reads: "for contributions to the fields of speech theory, speech signal processing, and speech synthesis." Mr. Dudley is retired from the Bell Telephone Labs. and is presently a Consultant at ITT Communications Systems, Inc. He is known as the "Father of the Vocoder." (Your Editor regrets the omission of Mr. Dudley's name from the list of new Fellows published in the last issue of the NEWSLETTER.)

7.3 Harold A. Wheeler to Receive IEEE Medal of Honor - Among the awards to be presented at the 1964 IEEE International Convention, March 23-26, in New York City, will be the Medal of Honor. This is the principal award that is bestowed nonannually for an exceptional contribution to the fields of science and technology encompassed by the IEEE. It will be given during the Annual Banquet to be held Wednesday evening, March 25, to Mr. Harold A. Wheeler for "his analyses of the fundamental limitation on the resolution in television systems and on wideband amplifiers, and for his basic contributions to the theory and development of antennas, microwave elements, circuits, and receivers." Mr. Wheeler, a member of the Long Island chapter of PTG-CS, is President and Director, Wheeler Labs., Great Neck, N. Y.

7.4. PTG-CS Members work on Translations. - Chairman David S. Rau reports the following recent special activity by members: The PTG-CS was recently invited to participate in the activities of the Communications Division "Translation Committees". (A call for volunteers was made in the September, 1963 NEWSLETTER.) These committees supervise IEEE participation in the translation and publication of foreign technical magazines, publicize this service by writing critical reviews of articles published in those magazines, and advise on the publication of the most useful of these reviews in IEEE publications. Several PTG-CS members volunteered for work on these committees, and one, Mr. Anatol Minc, was appointed Chairman of the "Telecommunications and Radio Engineering" Review Committee which covers a Russian publication by that name. Mr. Minc, a member of the Long Island Chapter, is President of the Tele-Signal Corp. of Hicksville, N. Y.

8. MEMBERSHIP IN PTG ON COMMUNICATION TECHNOLOGY

8.1 The membership in the new Professional Technical Group on Communication Technology will initially be drawn from two sources:

(1) Members of the PTG on Communication Systems will become members of the PTG upon enactment of the merger on July 1, 1964, either by renewing their membership in PTG-CS or by applying for membership in the new PTG. (All PTG memberships expire on June 30 of each year and require renewal. A reminder of expiration and application for renewal is sent to all IEEE members several months before that date.)

(2) Members of the Communication Division consist of IEEE members who subscribe to the bi-monthly periodical "Communications and Electronics". The latter publication has served as a joint transactions for the Communications and the Electronics Division. The Communications portion thereof is being merged with the transactions of PTG-CS into a new "Transactions of the PTG on Communication Technology". Members of the Communications Division who wish to join the new PTG on Communication Technology may do so by completing and returning the regular PTG application form, which

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on
COMMUNICATIONS SYSTEMS



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