IEEE

ADVANCING

THE THEORY

AND PRACTICE

FY 1985 - FY 1988 YEARBOOK FOR THE EAST TENNESSEE SECTION

THE INSTITUTE OF ELECTRICAL

AND ELECTRONICS ENGINEERS, INC.

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of Yeargin, Inc. (Engineering & Construction)

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of the University of Tennessee

DIRECTORS
Dr. Frederick W. Symonds
of the University of Tennessee

Dr. J. Reece Roth
of the University of Tennessee

CHAIRMAN'S MESSAGE

Dear Colleague:

The IEEE East Tennessee Section was established in 1936. Thanks to dedication and initiative of the membership, it has evolved to be one of the active and stable sections of IEEE. We look back and take pride seeing that the past subsections have grown to strong and independent sections (Chattanooga, Tri-Cities, and Oak Ridge).

Our goal has been set by the constitution of the Institute. "The IEEE shall strive to enhance the quality of life for all people throughout the world through the constructive application of technology in its fields of competence. It shall endeavor to promote understanding of the influence of such technology on the public welfare." To carry such a responsibility, during our professional lives, we engineers often feel the need to deepen knowledge in our chosen fields or expand into other areas. We live in an era of continuously advancing technology and an ever-changing professional climate. Every month the membership, coming from diverse industrial backgrounds, enjoy getting together, sharing the latest on matters of mutual concern, and the enlightening from a presentation on a particular subject of interest.

The Section is committed to bring professional, technical, and personal knowledge necessary for maintaining proficiency of its membership. We envision a permanent local library of educational material where video conference tapes can be available for professional development.

I salute those who graciously have used their time and effort for the Section to succeed in its endeavor, and extend invitations to the membership to express their ideas in how the Section can serve you further and in what areas.

Reevan R. Oskui
IEEE East Tennessee Section Chairman

FY1985-FY1988 YEARBOOK

PUBLISHED QUADRENNIALLY

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This Yearbook is prepared as an account of the IEEE East Tennessee Section. Neither IEEE nor any of its members assumes any legal liability or responsibility for the accuracy or completeness of any information disclosed.

Word Processing by Chris Cunningham

FACTS ABOUT IEEE AND THE EAST TENNESSEE SECTION, TENNESSEE COUNCIL, SOUTHEASTERN REGION 3

NATIONAL

IEEE is the world's largest technical organization. Dating back to 1884 nationally, it is made up of men and women who have organized to advance their knowledge of the field and to aid in the dissemination of new information as the field moves forward.

The Emblem of the IEEE:

> The emblem of the Institute of Electrical and Electronics Engineers symbolizes a fundamental relationship of the magnetic field ↻ and the current ↑ which produces it. This has universal significance. For those who wear the IEEE emblem on their lapels, it signifies they are members of a professional society in the field of electrical engineering and the allied arts and sciences.

EAST TENNESSEE SECTION

Established September 2, 1936, including: 839 members, The University of Tennessee Knoxville Student Branch, and Pellissippi State Technical Community College.

PUBLIC SERVICE HIGHLIGHTS:

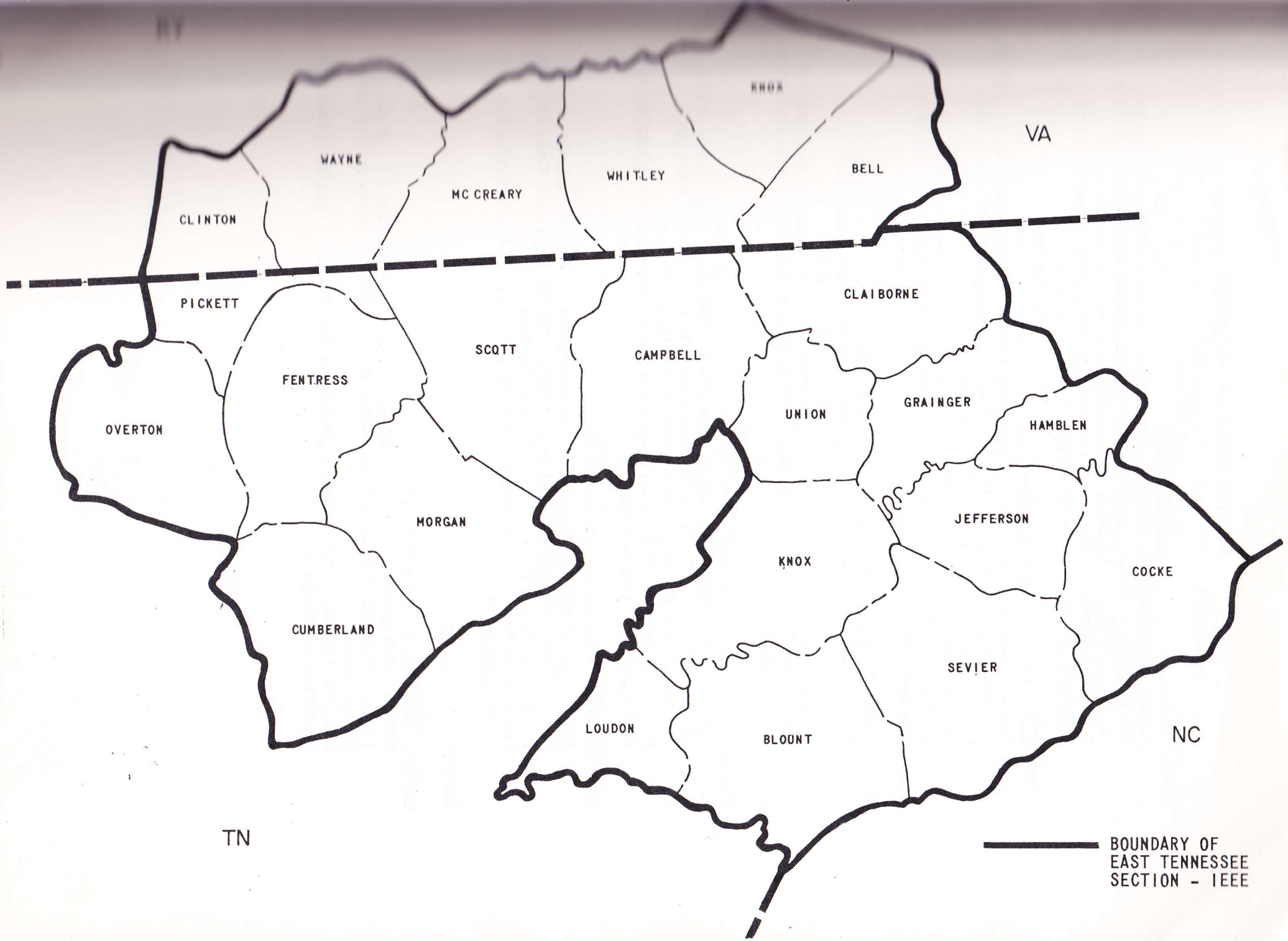
* TSPE Engineers' Week
* Southern Appalachian Science Fair
* 39th International Science & Engineering Fair
* University of Tennessee Outstanding Student Award
* Student Branch Activities
* Student Region Activities
* Student Dinners
* Student Convention Expense
* WATTec
* 1972 & 1988 IEEE Southeastcon

FIRMS WORKING WITH IEEE MEMBERS:

Over 100 in East Tennessee

ROLL OF FIRMS WORKING WITH MEMBERS

Allen & Hoshall Inc
Aluminum Company of America
Analysis & Measurem't Serv's
Anixter Bros Inc
Appalachian Elec Coop
Automatic Switch Co
BASF Corp
Bethlehem Steel Corp
Bussmann Mfg
Cleveland Controls Inc
Computer Products Unlimited
Computer Site Tech Inc
Computer Support Group Inc
Computer Tech & Imaging
Control Technology Inc
COR Inc
DataPhile Inc
DCS Electronics Inc
Digital AV
Digital Equipment Corp
Dillard Smith Const Co
Dixie Cement
EBASCO Services Inc
EG&G Ortec
E I DuPont de Nemours Inc
Elect Design & Consult'g Inc
Electrotek Concepts Inc
Elkmont Audio
Elographics Inc
Environmental Systems Corp
Flakt Inc
Ft Sanders Regional Med Ctr
Geiger & Associatees
General Electric Co
Goodyear Atomic Corp
Gould Inc
Harvey Jack & Assoc Inc
Highland Home Center
Hodge Engrg Co
Integrated Systems Inc
JBF Associates Inc
Kaiser Aluminum
Keever Comfort Systems
Knoxville Utilities Board
Lincoln Memorial University
Lockwood Greene
LTM Consultants
Martin Marietta Ener Sys Inc
Maryville College
Midwest Technical Inc
Montgomery Marketing Inc
Morristown Power System
National Home Insp Serv Inc
Oak Ridge Accelerator Tec Inc
Oak Ridge National Lab
Obed Inc
Pellissipppi St Tech Cm Coll
Perceptics Corp
Philips Cons Electronics Co
Pressure Calib Spec Ltd
Rino Inc
Robertshaw Controls Co
Ronde & Schwarz
R T Schiavon & Associates
Science Applic's Intl Corp
Sevier County Electric Sys
Shaw Technical Services Inc
South Central Bell Tel Co
Southern Testing Serv's Inc
Sprankle Properties
Stone & Webster Engrg Corp
Sunair Electronics Inc
TAPOCA Inc
Tech-Con Inc
Technology For Energy Corp
Temperature Equipment Corp
Tenneco Gas Pipeline Group
Tennelec Inc
Tennessee Ctr for Res & Dev
Tennessee Comp Specialties
Tennessee Tech University
Tennessee Valley Authority
Texas Instruments
Thomson Consumer Elect
Union Carbide Corp
United Engr's & Constructors
University of Tennessee
US Dept of Air Force
US Dept of Energy
US Dept of State
Valcuum Technology
Viskase Corp
Vreeland Associates Engr's
Walters State Comm College
WBIR Telivision
Westinghouse Electric Corp
West Miller Welch Engr Inc
Williams Companies
Wood Unlimited
Yeargin Inc


KY
KNOX
VA
WAYNE
WHITLEY
BELL
MC CREARY
CLINTON
CLAIBORNE
PICKETT
SCOTT
CAMPBELL
FENTRESS
UNION
GRAINGER
HAMBLEN
OVERTON
MORGAN
JEFFERSON
KNOX
COCKE
CUMBERLAND
SEVIER
LOUDON
BLOUNT
NC
TN
BOUNDARY OF
EAST TENNESSEE
SECTION - IEEE

BIOGRAPHIES OF FELLOWS

BOSE, BIMAL K. (M'60-SM'78-F'89)
Born: September, 1932. Degrees: B.E., 1956, Calcutta University; M.S., 1960, University of Wisconsin-Madison; Ph.D., 1966, Calcutta University.
Fellow Award: "For contributions to power electronics and especially drive technology."

GONZALES, RALPH (M'64-SM'72-F'84)
Born: August 26, 1942, Havana, Cuba. Degrees: B.S., 1965, University of Miami; M.S., 1967, University of Florida; Ph.D., 1970, University of Florida.
Fellow Award: "For contribution to the theory and applications of pattern recognition and digital image processing."

HOUSE, HAZEN E. (M'30-SM'45-F'71-LF'72)
Born: September 15, 1906, Knoxville, TN. Degrees: B.S.E.E., 1929, M.I.T.; M.E.E., 1932, MIT.
Fellow Award: "For contributions to the determination of electrical and thermal characteristics of stranded and bare conductors."

HUNG, JAMES C. (M'60-SM'62-F'84)
Born: February 18, 1929, Foochow, China. Degrees: B.S., 1953, National Taiwan University; M.S., 1956, New York University; Ph.D., 1961, New York University.
Fellow Award: "For contributions to industrial electronics and control automation."

LIVINGSTON, ROBERT S. (M-SM-F'68)
Born: September 20, 1914, Summerland, CA. Degrees: A.B., 1935, Domana College; M.S., 1941, University of California; Ph.D., 1941, University of California.
Fellow Award: "For contributions to cyclotron focusing development."

MARTIN, J. A. (F)

OAKES, LESTER C. (M-SM-F'83)
Born: October 11, 1923, Knoxville, TN. Degrees: B.S., 1949, University of Tennessee; M.S., 1962, University of Tennessee.
Fellow Award: "For contributions to nuclear power reactor control systems."

ROCHELLE, ROBERT W. (M'47-F'70)
Born: June 23, 1923, Nashville, TN. Degrees: B.S., 1947, University of Tennessee; M.E., 1949, Yale University; Ph. D., 1963, University of Maryland.
Fellow Award: "For development of spacecraft information systems, in particular, pulse-frequency modulation; and for contributions to advancements in spacecraft electronics."

ROTH, J. REECE (M-F'81)
Born: September 19, 1937. Degrees: S.B. in Physics, 1959, M.I.T.; Ph.D., 1963, Cornell University.
Fellow Award: "For developments in superconducting magnet technology and discoveries in plasma instabilities and turbulence."

SPROUSE, McBETH (F'81)
Born: November 24, 1920. Degrees: B.E.E., 1942, Clemson University.
Fellow Award: "For leadership in standardizing design processes for power generation stations."

WEAVER, CHARLES H. (M-SM-F'70)
Born: January 27, 1920, Murfreesboro, TN. Degrees: B.S., 1943, University of Tennessee; M.S., 1948, University of Tennessee; Ph.D., 1956, University of Wisconsin.
Fellow Award: "For leadership in engineering education and contributions to the theory and application of control systems."

WILLIAMS, CHARLES W. (M-SM-F'82)
Born: February 18, 1931, Palestine, AR. Degrees: B.S., 1959, University of Tennessee; M.S., 1963, University of Tennessee.
Fellow Award: "For contributions to the development and application of nuclear instrumentation."

EXECUTIVE COMMITTEES

----------East Tennessee Section----------

Chairman:

1985-1986	1986-1987	1987-1988	1988-1989
R. F. Keck	J. R. Sonner	M. Don Trundle	R. R. Oskui

Vice-Chairman:

1985-1986	1986-1987	1987-1988	1988-1989
J. R. Sonner	M. D. Trundle	R. R. Oskui	J. K. Goddard

Secretary-Treasurer:

1985-1986	1986-1987	1987-1988	1988-1989
M. Don Trundle	F. Rosenzweig	D. J. Helms	L. S. Baker

Assistant Secretary-Treasurer:

1985-1986	1986-1987	1987-1988	1988-1989
F. Rosenzweig	D. J. Helms	L. S. Baker	D. Brzakovic

Directors:

1985-1986	1986-1987	1987-1988	1988-1989
D. W. Bouldin	D. W. Bouldin	J. W. Crabtree	F. W. Symonds
C. H. Mock	J. W. Crabtree	F. W. Symonds	J. Reece Roth

Junior Past Chairman:

1985-1986	1986-1987	1987-1988	1988-1989
J. Reece Roth	R. F. Keck	J. R. Sonner	M. Don Trundle

----------Power Chapter----------

Chairman:

1985-1986	1986-1987	1987-1988	1988-1989
W. Nelson	J. D. Hutson	Paul Nesbitt	(vacant)

----------PTCC Student Branch----------

Chairman:

1986-1987	1987-1988	1988-1989
M. Frizzle	M. Frizzle	Sarah Carr

----------UTK Student Branch----------

Chairman:

1985-1986	1986-1987	1987-1988	1988-1989
M. Monday	B. Lee	J. Horner	Greg Kenney

OPERATING EXPENSES & BUDGET

ITEM	1985-1986 (EXPENSES)	1986-1987 (EXPENSES)	1987-1988 (EXPENSES)	1988-1989 (BUDGET)
Meeting Notices; Postage; Election Ballots	1682	1573	1847	1850
Yearbook	y450	y450	y450	450
Awards	104	49	50	100
Student Activity Support	--	50	70	100
Miscellaneous	525	622	m4000	150
Total Expenses (not including Yearbook)	2478	2359	7744	3750 (EXPECTED)
Income*	3691	3054	7390	4000 (EXPECTED)

* Income Sources:
- Rebate from IEEE headquarters based on number of members in the section and meeting attendance.
- WATTec rebate (about $150 per year).
- Interest on reserve funds

m Includes postage for SOUTHEASTCON.

y Set aside for publication at $450 per year, this figure is not included in total expenses.

1988-89 COMMITTEES

PROGRAM COMMITTEE
James K. Goddard, Jr., Chairman
Dragana Brzakovic
Rezvan R. Oskui

PUBLIC RELATIONS, ATTENDANCE, & FELLOWSHIP COMMITTEE
J. W. Crabtree, Jr., Chairman

MEMBERSHIP & TRANSFERS COMMITTEE
M. Don Trundle, Chairman

STUDENT ACTIVITIES COMMITTEE
James K. Goddard, Jr., Chairman
Frederick W. Symonds, UTK Branch Counselors
Greg Kenney, UTK Branch Chairman
Robert Mobley, Jan R. Sonner, PTCC Branch Counselor
Sarah Carr, PTCC Branch Chairwoman

EARBOOK, PUBLICATIONS, & HISTORICAL COMMITTEE
aymond A. Rochat, Chairman
an R. Sonner, Assistant Chairman
ohn G. Gresham

WARDS COMMITTEE
. Don Trundle, Chairman

ATTec ACTIVITIES COMMITTEE
on Farmer, Representative

ROFESSIONAL ACTIVITIES COMMITTEE
Don Trundle, Chairman

MINATING COMMITTEE
n R. Sonner, Chairman
bert E. Moblay
y McKnight

LLERS COMMITTEE
Don Trundle, Chairman
if T. Cleveland

STATEMENTS OF COMMITTEE DUTIES

PROGRAM COMMITTEE

The duties of the Program Committee are very important. This committee should meet well in advance of the program year, and outline a general program for the following year. We must coordinate the meetings of the Section and the Power Engineering Society Chapter at the beginning of the year to determine the number, order, types, and approximate dates of meetings to be scheduled.

This committee is responsible for programs at all general meetings of the Section, including the selection and securing of speakers and arranging for the meetings. Insofar as meetings, the Power Program Committee may be viewed as a functioning subcommittee of the Program Committee. The Program Committee may set up a subcommittee known as "The Entertainment Committee" to work with the Public Relations, Attendance, and Fellowship Committee in making assignments for social activities of the Section at general meetings.

The Program Committee shall be responsible for preparing materials for the Section Secretary to mail appropriate meeting notices and for the Public Relations Committee to furnish the newspaper with suitable material on the speakers.

PUBLIC RELATIONS, ATTENDANCE, AND FELLOWSHIP COMMITTEE

The Public Relations Committee shall be responsible for properly advertising meetings of the Section and for all local publicity on IEEE matters. Publicity includes releases to the press on IEEE Awards made to Section members. The Chair shall report periodically to the Section Executive Committee on the activities of his Committee. This Committee should work in close cooperation with the Program Committee in proper advertisement of meetings in local newspapers, with publicity to the speaker as well as the meeting.

The Public Relations Committee should work in close cooperation with the Program Committee in the preparation and mailing of meeting notices to the Section membership.

The Committee shall be responsible for making arrangements for meeting places, and encouraging attendance at meetings.

This Committee is responsible for arranging social meetings during the year such as spouses night, etc. This Committee works jointly with the Program Committee.

MEMBERSHIP & TRANSFERS COMMITTEE

This Committee is responsible for securing new members and maintaining existing membership and tries to contact every electrical engineer in the East Tennessee Section. The Committee should thoroughly acquaint each member with the membership application form, and prepare to help applicants in filling out the forms. Potential members should be invited to attend one or more meetings, with arrangements made to introduce them to fellow engineers.

This Committee shall review the entire membership roster of the Section, find those qualified for a higher grade of membership, and point out to them the desirability of holding the highest grade for which they qualify. This Committee shall help the Awards Committee by suggesting names of outstanding members for invitation to grade or Fellow.

The Chair shall designate committee members to distribute attendance (lapel) cards at all Section meetings, see that these cards are filled out and deposited in a central location after the meeting, and collect and analyze the cards for potential members.

STUDENT ACTIVITIES COMMITTEE

The Student Activities Committee is responsible for Section cooperation with Student Branches. The Committee shall support student activities within the Section territory, as at The University of Tennessee and Pellissippi State Technical Community College. The Chair shall report on student activities to the Section Executive Committee. The Committee should arrange for students to attend Section meetings. Also, this Committee should help the Awards Committee with student awards and prizes.

YEARBOOK, PUBLICATIONS, & HISTORICAL COMMITTEE

The Yearbook, Publications & Historical Committee is responsible for preparing and distributing the Section Yearbook and any other Section publications. The Committee is responsible for gathering in, screening, and organization of Section records for continual archiving.

AWARDS COMMITTEE

All members of the Awards Committee shall acquaint themselves with full details on all IEEE, Region, Section, and Student Awards, including nominations for IEEE Fellow grade. The Committee shall take proper action for the active participation of the Section in those Awards. The Committee Chair shall report on the activities of the Committee to the Section Executive Committee.
Recognition of outstanding service and achievement of members is an important activity of the Section. Recipients will receive framed certificates at the Annual Business Meeting in May. The

Awards Committee shall ask for nominations for these awards. Contact the Awards Committee Chair before April 30.

The outstanding service award is to recognize a member of the Section who has made outstanding contributions of service to the East Tennessee Section. Criteria for consideration include the following: importance of service contribution, committee membership, Section offices held, and years of service distinction. (Service to the Institute and Region is of lesser importance since other awards are available for this purpose.) The nominee shall have lived in the Section for at least three years preceding the year of the award consideration and have not received this award during that time.

Note: There is no requirement for the Awards Committee to make a selection on an Annual basis if, when in their judgments, nominations are of insufficient calibre. A list of recipients is maintained and published in the Section Yearbook.

SCIENCE FAIR REPRESENTATIVE

The Science Fair Representative represents the Section in helping with the annual Southern Appalachian Science Fair exhibition.

NATIONAL ENGINEERS' WEEK AND WATTec REPRESENTATIVE

The National Engineers' Week Representative represents the Section in cooperating with N.S.P.E. in National Engineers' Week and WATTec activities.

EDUCATIONAL ACTIVITIES COMMITTEE

The Educational Activities Committee is responsible for determining the educational needs and desires of the Section members and the creation of educational activities for the Section.

PROFESSIONAL ACTIVITIES COMMITTEE (PACE)

PACE serves engineers and the IEEE society in three major ways as listed below:

Encourages the provision of Member Services mainly in the form of increased economic benefits, professional stature, and employment security to our fellow engineers; also enhances Public Awareness about the socio-technical issues affecting all American society and about what our own needs as technical professionals are; and involved, as engineers, in Government Action at the local, state, and national levels where our technological background and problem solving are available to the legislative and executive process and where we can influence legislation affecting our professional careers.

BYLAWS

Adopted on January 21, 1964:
On May 14, 1974, the Section adopted the IEEE Constitution to replace the Section Constitution and amended the Section Bylaws to conform with the IEEE Constitution. On September 11, 1984, the Section amended the Section Bylaws with housekeeping changes and the extension of the term for the Directors from one year to two year.

Section 100 - Name, Purpose, Territory

101. This organization shall be known as the East Tennessee Section of the Institute of Electrical and Electronics Engineers, Incorporated, as authorized by the IEEE Executive Committee on June 18, 1963.

102. The purpose of the Section shall be to promote the principles outlined in the Constitution and Bylaws of the IEEE. This purpose includes the advancement of the theory and practice of electrical engineering, electronics, radio, allied branches of engineering, and of the related arts and sciences, the maintenance of high professional standards among its members, and the development of the individual engineer. This shall be done by holding meetings and by engaging in other activities as necessary for the fulfillment of these objectives.

103. The territory of the Section shall include Blount, Campbell, Claiborne, Cocke, Cumberland, Fentress, Grainger, Jefferson, Hamblen, Knox, Loudon, Morgan, Overton, Pickett, Scott, Sevier, and Union Counties of the State of Tennessee; Bell, Clinton, Knox, McCreary, Wayne, and Whitley Counties of the State of Kentucky.

Section 200 - Membership

201. All members of the IEEE with IEEE mailing addresses within the territory of the Section are automatically members of the Section unless an individual member chooses membership in a contiguous Section in accordance with IEEE Bylaws. Certain other members of the IEEE residing in contiguous territory may become members of the Section in accordance with IEEE Bylaws.

202. All Fellows, Senior Members, and Members of the IEEE who are members of the Section shall be entitled to attend the meetings, vote, and hold office. Associates of the IEEE who are members of the Section shall be entitled to attend meetings and vote, but shall not have the right to hold office.

203. Student members of the IEEE shall be entitled to attend meetings but shall not have the right to vote or hold office.

204. The Section may serve non-members or groups wishing to receive meeting announcements and other Section publications. The costs of publications and mailing shall be paid in advance. The amount to be paid shall be determined yearly by the Executive Committee. The non-member mailing list should be maintained in accordance with current IEEE policy.

Section 300 - Officers

301. The officers of the Section shall be a Chairman, Vice-Chairman, Secretary-Treasurer, Assistant Secretary-Treasurer, Junior Past Chairman, and two Directors. The Junior Past Chairman shall be the most recent Past Chairman who is currently a member of the Section. The Chairman, Vice-Chairman, Secretary-Treasurer, Assistant Secretary-Treasurer and Junior Past Chairman shall serve for a period of one (1) year beginning July 1. The two Directors shall serve for a period of two (2) years and have alternating terms of office (i.e., only one Director will be elected each year to serve a two year term). The Chairman-Elect shall be the official Section delegate to any IEEE meting requiring Section representation between the time of his election and the time at which he takes office. The Vice Chairman-Elect shall be first alternate delegate. In the event neither is able to attend, a delegate shall be chosen by the Executive Committee.

302. The offices of Chairman and Secretary-Treasurer shall be filled by automatic succession of the previous year's Vice-Chairman to Chairman and Assistant Secretary-Treasurer to Secretary-Treasurer. If it is known that any of these succeeding Officers will be unable to hold office the next year, such office or offices shall be filled by election in accordance with Section 400. The offices of Vice-Chairman, Assistant Secretary-Treasurer, and Director shall be filled each year by election in accordance with Section 400.

303. A vacancy in the office of Chairman or Secretary-Treasurer shall be filled by the Vice-Chairman or Assistant Secretary-Treasurer respectively. A Vice-Chairman or Assistant Secretary-Treasurer, who assumes the office of Chairman or Secretary-Treasurer to fill a vacancy shall still succeed to the office of Chairman or Secretary-Treasurer for the following year as provided in Section 302. A vacancy in the office of Vice-Chairman, Assistant Secretary-Treasurer, or Director shall be filled by appointment of the Executive Committee for the remainder of the unexpired term. An appointed officer shall serve in the office to which he is

appointed, or in the office to which he has succeeded in the year he was appointed, only for the remainder of the unexpired term of that office. Any office filled by appointment or by succession from an appointment shall be filled by election for the following year. If it becomes apparent that an office will be vacant in the following year after it is too late to fill that office through the regular election process, such a vacancy shall be filled in the manner prescribed above by the remaining members of the new Executive Committee.

Section 400- Nomination and Elections of Officers

401. Prior to February 1 of each year the Chairman shall appoint a Nominating Committee consisting of five (5) qualified voting members of the Section, none of whom are then serving as a member of the Executive Committee, and shall name one of the appointees as Chairman of the Committee.

402. The Nominating Committee shall select two nominees for each of the Section offices to be filled in the forthcoming election and shall secure from each of the nominees his consent to serve if elected.

403. On or before February 15 the Nominating Committee shall submit in writing to the Secretary-Treasurer a list of the offices to be filled in the election along with the names of their nominees for each office. The Nominating Committee shall prepare and submit in writing to the Secretary-Treasurer, along with the list of offices and names of nominees, a brief biographical sketch of each of the nominees named setting forth the nominee's qualifications for holding the office for which he is being nominated.

404. Not later than March 1, the Secretary-Treasurer shall send to each Section member a list of the nominees showing the office for which each has been nominated. This list shall include the names of the officers who will hold office by automatic succession and shall indicate which office each will hold.

405. Other nominations may be made by the Section membership by submitting to the Secretary-Treasurer a letter bearing the name of the nominee, the office for which nominated, a brief biographical sketch of the nominee, a statement of his consent to serve if elected, and the signatures of at least ten (10) qualified voting members making the nomination, which letter must be received by the Secretary-Treasurer on or before April 1.

406. Not later than April 15, the Secretary-Treasurer shall prepare and mail to each Section member a ballot showing the elective offices to be filled along with the names of the

nominees, enclosing therewith a copy of the above biographical information. The names of the officers who will hold office by automatic succession shall be listed on the ballot, indicating which office each will hold. Ballots shall include space for write-in votes. Each member shall be sent a blank envelope for enclosing his marked ballot and a self-addressed cover envelope addressed to the Secretary-Treasurer, bearing the phrase "Enclosing a Ballot Only" or its equivalent, and having a provision for the voter's signature. Included with the ballot should be a notice that it must be received by the Secretary-Treasurer on or before April 30 in order to be counted.

407. Each ballot to be included in the count for election must be received by the Secretary-Treasurer in a signed cover envelope on or before April 30. The Secretary-Treasurer shall check each signature on the cover envelopes against the list of Section qualified voting members, shall open the cover envelopes on all valid ballots, and shall deliver the unopened ballot envelopes to the Tellers Committee.

408. On or before May 1 the Chairman shall appoint a Tellers Committee consisting of three qualified voting members, none of whom shall be a nominee for an office in the election. It shall be the duty of the Tellers Committee to receive the unopened ballot envelopes from the Secretary-Treasurer, to count the votes and to report in writing the results of the count to the Secretary-Treasurer and the Chairman on or before the date of the Section Annual Business Meeting in May. The Chairman shall publicly announce at the meeting the names of the nominees elected.

409. The nominee receiving the greatest number of votes for each particular office shall be declared elected.

410. In case of a tie vote for any office, the tie shall be resolved by secret ballot at the Annual Business Meeting.

411. The term of all elected officers, except the Office of Director, shall begin on July 1 and shall run through June 30 of the succeeding year or until a successor has been duly elected and takes office.

412. The term of Office of Director shall begin on July 1 with a duration of two (2) years ending on June 30. Two Directors will be elected for the term beginning July 1, 1985. The nominee receiving the greatest number of votes shall serve a two year term ending June 30, 1987. The nominee with the next greater number of votes shall serve a one year term ending June 30, 1986. Henceforth, one Director will be elected each year to serve a two year term of office.

ection 500 - Management and Committees

01. The management of the Section shall be by the Section Executive Committee which shall consist of the Chairman, Vice-Chairman, Secretary-Treasurer, Assistant Secretary-Treasurer, the Junior Past Chairman, the two Directors, the Chairman of Each Subsection, and the Chairman of Chapters of Groups and Societies in the Section, and the Chairman of the Student Branch, all of whom shall be voting members. Meetings of the Executive Committee shall be called at such times as may be found necessary by the Chairman or at the request of three members of the Executive Committee. A majority of the voting members of the Section Executive Committee shall constitute a quorum at all meetings of the Committee. A majority vote of Section Executive Committee members present at such meetings shall be necessary in the conduct of its business.

2. The Chairman shall have general supervision of the affairs of the Section under the direction of the Executive Committee. He shall preside at meetings of the Section and Section Executive Committee and shall perform such other duties and have such other powers as may be provided for in these Bylaws, or as may be delegated to him by vote of the Section. In his absence his duties shall be performed by another member of the Executive Committee in the order shown in Paragraph 501.

3. The Secretary-Treasurer shall have the responsibility for sending out notices and for recording the minutes of all meetings of the Section and of the Section Executive Committee. He shall receive and deposit all monies in the name of the Section, and shall make only such disbursements as shall be approved by the Section Executive Committee. He shall make such reports as may be required by the IEEE Bylaws. The Secretary-Treasurer shall keep a permanent record of Section historical data.

4. The Chairman shall appoint the following standing committee: Program, Public Relations, Membership and Transfers, Student Activities, and Yearbook and Publications. He shall appoint such other special committees as may be considered desirable, subject to the approval of the Section Executive Committee.

5. The terms of all committees shall coincide with those of the Section Officers except that special committees whose work may overlap the Section year may have a longer term at the discretion of the Section Executive Committee, but not to exceed two years.

Section 600 - I

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605. Meetings of
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Section 700 - Su

701. Subsections
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702. The Section
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Section 600 - Meetings

601. Section meetings shall be held monthly from September to May, inclusive, upon dates and places recommended by the Program Committee and subject to the approval of the Executive Committee. Special Section meetings may be called at any time by the Executive Committee. Meetings of Chapters shall be coordinated with the Program Committee Chairman.

602. Written notice of all Section meetings shall be sent out at least seven (7) days in advance of each meeting. Notice twenty (20) days in advance is required for any meeting at which changes in these Bylaws will be considered.

603. The Section meeting in the month of May shall be the Annual Business meeting at which time the newly elected Officers for the Section shall be announced. A report on the activities of the Section for the preceding year, including a financial report, shall be given. Such other business shall be transacted as should properly come before the Annual Business meeting or as the Executive Committee may refer to it.

604. Business requiring vote may be transacted only if a quorum of qualified members is present at a duly announced meeting. A quorum at a Section meeting shall be fifteen (15) members or five (5) percent of total Section membership, whichever is greater. A majority of committee members shall constitute a quorum at committee meetings.

605. Meetings of the Section and of the Section Executive Committee shall be conducted in accordance with Robert's Rules of Order except where they conflict with these Bylaws.

Section 700 - Subsections

701. Subsections may be established within the Section in accordance with IEEE Bylaws.

702. The Section Executive Committee shall have authority to define or alter the territory of any Subsection within the Section subject to the provisions of the IEEE Bylaws.

703. Each Subsection may adopt Bylaws. Such Bylaws and amendments thereto shall be consistent with the IEEE and East Tennessee Section Bylaws and shall be approved by the Section Executive Committee.

704. Subsection officers shall be determined by the membership of the subsection but shall be at least a Chairman, a Vice-Chairman, a Secretary and a Treasurer. (The Subsection may combine the offices of Secretary and Treasurer in one person.)

705. Each Subsection shall submit a budgetary request for funds for each year's operation before funds for that year will be made available by the Section Executive Committee.

706. Each Subsection shall submit to the Section Secretary-Treasurer a financial report for the past calendar year as soon after December 31 as practicable and shall submit other financial reports as requested by the Section Executive Committee.

Section 800 - Amendments

801. Adoption of these Bylaws or any amendments thereto or revocation thereof shall require affirmative vote of two-thirds of all votes cast at a regular meeting or by mail ballot, provided that notice thereof has been sent to all Section members at least twenty (20) days prior to the taking of such a vote. A copy of the Bylaws, as amended, shall be submitted to the Regional Director for approval.

CENTENNIAL ARCHIVING PROJECT

As part of its observance of the IEEE Centennial in 1984, the East Tennessee Section completed its centennial archiving project. The project was an effort which involved gathering in, screening, and organization of past East Tennessee Section records for mirofiching and final preservation in archival libraries. The project was started at the suggestion of 1984-85 Section Chairman, J. Reece Roth. The Executive Committee of the East Tennessee Section enthusiastically adopted the project at its July, 1984, meeting. At that meeting, the Section officers were authorized to spend up to $500 of the Section reserve, then invested in an IEEE headquarters account. In August, 1984, the Section obtained support from Mr. Robert S. Duggan, Jr., Director of IEEE Region 3. Mr. Duggan authorized the transfer of $650 of Region 3 "needy section funds" to the East Tennessee Section to support its centennial archiving project.

The Centennial Archiving Committee consisted of the following members:

J. Reece Roth, Chairman
Richard F. Keck
John W. Crabtree
Paul Micale
William H. Dainwood
Lawrence Peterfruend
Clarence H. Mock

The local section was particularly fortunate to have the help of John Crabtree, a charter member of the East Tennessee Section when it as founded in 1936. The other members of this committee were past chairmen or officers of the East Tennessee Section.

The procedure followed by the Committee was as follows: In the September, October, and November newsletters, there was an appeal to members of the East Tennessee Section to turn in any records of the Section which they had in their files or of which they had knowledge. This appeal produced a two-drawer filing cabinet in the basement of Ferris Hall, the Electrical Engineering Department at UTK. The file contained about 15 years' worth of records; and many individual file folders which had passed from one officer to the next. By the time the Committee was ready to start work in early December, 1984, about 4 file drawers of material accumulated. The Centennial Archiving Committee met on three Saturdays: December 15, 1984, January 26, 1985, and February 23, 1985. The Committee found it necessary to spend about 100 manhours to screen the records covering 25 years.

The East Tennessee Section is fortunate in having a yearbook which contains one or more paragraphs of information about the activities of each year since its founding in 1936. We also have

a complete record of the charter members of the East Tennessee Section, and a complete record of the elected officers from its founding to the present. The early history of the East Tennessee Section, before 1960, is in the East Tennessee Section's yearbook. The other archival records available to us contain only spotty records of committee chairmanships and events before 1960.

During the first 25 years of its history, the East Tennessee Section met alternately in Chattanooga and Knoxville. The chairmanship of the East Tennessee Section alternated between individuals from those two cities. By 1961, however, a consensus had grown that it was time to split the East Tennessee Section (then the AIEE) into two distinct sections. When this division occurred in 1961, the Knoxville section retained the East Tennessee Section name, and the members in Chattanooga became an independent section. The almost complete absence of archival records, including minutes of meetings, financial records, newsletters, and records of meetings before 1960, is probably caused from the Section split up in 1961. The early records of the East Tennessee Section remained with the Chattanooga Section, and not in Knoxville.

When the Centennial Archiving Committee started its work, it found a continuous and complete archival record of the East Tennessee Section's affairs from 1960 through 1984. The records were intermixed with many duplicate copies, rough drafts, routine mailings, memos from IEEE headquarters and Region 3, and other materials not worthy of archival preservation. The committee reduced the bulk of this material to about 20% of the original bulk by careful screening.

The material in the archives is filed under seven major headings for each year. The year used in the archives is the activity year set by the Bylaws of the East Tennessee Section from July 1 through June 30. Within each activity year the archival records are classified into the following seven groups:

1. Reports - which include the results of the election for the activity year in question, a roster of elected and appointed officers, and, where available, the chair's report summarizing the activities of that year.

2. Financial Records - these include local section budgets, correspondence with IEEE headquarters about financial matters, and the yearly reports required by IEEE headquarters, usually on a calendar year basis.

3. Newsletters and Meeting Announcements - circulated to the membership, usually on a monthly basis, are included, along with the report of the meetings sent to IEEE headquarters. The reports sent to headquarters usually record the number of members and guests in attendance.

4. Minutes - of the executive or cabinet meetings of the East Tennessee Section are included, as well as minutes of any chapter active during that year. The minutes also usually include the yearly reports from the individual functional committee chair's at the end of the year, and other records of decisions taken by the section officers.

5. The Section Yearbook - is included when it was published. In recent years, because of the financial burden, the East Tennessee Section has been printing its yearbook only every third year. In earlier years, publication of the yearbook was on a yearly basis.

6. Correspondence - The correspondence generated by the elected officers, committee chairmen, and other members working for the local section are included. All correspondence with IEEE headquarters and Region 3 is preserved where it was written by a section officer, or was addressed specifically to a section officer and involved local section business. Routine memos from Region 3 or IEEE headquarters, routinely distributed to local section officers on their mailing lists, are not included.

7. Student Activities - The local section activities which relate to cultivation of students is filed in this section. This includes not only the interactions between the IEEE East Tennessee Section and the UTK Student Branch and Pellissippi State Technical Community College, but also the efforts of the IEEE East Tennessee Section to encourage high school students through the Southern Appalachian Science Fair and other activities.

8. Other Activities - Other major activities like SOUTHEASTCON, sponsored by the East Tennessee Section, are filed as separate groups in the year in which they occurred.

The Centennial Archiving Committee screened the records in two rounds. The first round of screening activity was done according to the following guidelines: discard duplicate copies, routine memos from IEEE headquarters and Region 3, receipts, checks, bills and other non-summary financial records before 1978 (those after 1978 are saved for tax purposes), directories and manuals, and guides other than those produced by the Section.

The records were then subject to a final round of screening and organization, for which the guidelines were as follows:

1. Put all papers in chronological order, with the earliest first.

2. Check for satisfaction of the classification guidelines given above.

3. Remove staples, bindings, paper clips, and other fasteners which might interfere with the mirofiching of the records.

4. Remove duplicates, including handwritten originals of final drafts.

5. Make sure the index tabs are marked.

6. Put the material in the right year if it is out of chronological ordér, or if it belongs in some other activity.

This final round of screening reduced the bulk of the records to about 20% of the initial bulk. When the records were in file folders with index tabs for the seven groups listed above, it was then ready to be microfiched. The records were taken to the microfiche company, where a master microfilm was made of the records, from which the individual microfiche copies were made. The East Tennessee Section bought 13 copies of the microfiched records, which were intended to be distributed to the following archival repositories:

1. The Center for the History of Electrical Engineering at IEEE headquarters.

2. The Local Section Office at IEEE headquarters.

3. The Chair of IEEE Region 3, for inclusion in Region 3 archival records.

4. The University of Tennessee Library.

5. The Library of TVA.

6. The Library of the Oak Ridge National Laboratory.

7. The Chair of the Tri-Cities Section of the IEEE, which split off from the East Tennessee Section in the early 1980's, and the early records interspersed with the East Tennessee Section records.

8. The Chattanooga Section, part of the East Tennessee Section until 1961.

9. The Oak Ridge Section, with which the East Tennessee Section has had many cooperative ventures over the years.

10. Local Historical Societies.

The original, hard copies of the archival records are deposited with The University of Tennessee's main library for archival record keeping.

ARCHIVAL INFORMATION

Members

(Includes Upper East Tennessee Subsection until 1981-82, Pellissippi State Technical Community College after 1986-87 and The University of Tennessee - Knoxville Student Branch.)

DECEMBER 31:	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEMBERS:	288	293	297	463	475	550	545	591	604

DECEMBER 31:	1976	1977	1978	1979	1980	1981	1982	1983	1984
MEMBERS:	595	634	709	816	849	765	770	795	733

DECEMBER 31:	1985	1986	1987	1988
MEMBERS:	815	889	908	839

CHARTER MEMBERS
AIEE East Tennessee Section

F. O. Andridge
David R. Balwin
Harry Barnhill
J. C. Barry, Jr.
Wm. R. Brownlee
J. C. Buchanan
W. C. Campbell
Joe Coe
John W. Crabtree
Llewellyn Evans
A. P. Farrow
R. M. Gallaher
E. E. George
Charles T. Graham
K. E. Hapgood
John D. Harper
Wallace Harrison
F. A. Hoeke
W. G. Hoffman
R. A. Hopkins
H. E. House
J. E. Housley
Chase Hutchinson
Cecil F. Jones
S. W. Keat
Paul J. Kruesi
W. F. Laubscher
W. Ledermann
H. H. Long
B. H. McCoin
R. W. McEver
R. M. Milton
J. J. Noell
W. G. Parrott, Jr.
Wm. Paynter, Jr.
Charles A. Perkins
Edward B. Peters
J. G. Pettijohn
Fred C. Prince
A. H. Profitt
W. L. Ridenhono
H. W. Scovel
Frank J. Stevens
Charles B. Stoughton
C. B. Summers
A. H. Sullivan
J. G. Tarboux
H. S. Truse, Jr.
Sam C. Wilkerson
A. B. Wood
E. Woodbury
W. W. Woodruff

YEAR	CHAIRMAN
1936-37	Chase Hutchison
1937-38	E. E. George
1938-39	J. E. Houseley
1939-40	K. E. Hapgood
1940-41	J. G. Tarboux
1941-42	F. J. Stevens
1942-43	R. A. Hopkins
1943-44	R. M. Ferrill
1944-45	J. D. Harper
1945-46	C. P. Almon, Jr.
1946-47	F. A. Hoeke
1947-48	J. J. Hill
1948-49	R. W. McEver
1949-50	T. D. Talmadge
1950-51	R. M. Alspaugh
1951-52	F. J. Baker
1952-53	Mead Warren, Jr.
1953-54	J. Warren Roberts
1954-55	Frank Cross
1955-56	Volney J. Cissna
1956-57	Hugh C. Sells
1957-58	M. Stephens Merritt
1958-59	L. E. Marshall
1959-60	Fred Chambers
1960-61	P. R. Andrews
1961-62	C. A. Duke
1962-63	John A. Brown, Jr.
1963-64	Charles H. Cain
1964-65	H. E. Church
1965-66	Campbell McCord
1966-67	Paul C. Cromwell
1967-68	Hal C. Nichols, Jr.
1968-69	Raymond A. Rochat
1969-70	Charles H. Weaver
1970-71	Robert E. Bodenheimer
1971-72	John E. Holladay
1972-73	James W. Keller
1973-74	J. Frank Pierce
1974-75	Martin L. Hartley
1975-76	Frederick W. Symonds
1976-77	William H. Dainwood
1977-78	Lawrence Peterfruend
1978-79	Joseph M. Googe
1979-80	Claude Harvey
1980-81	Richard E. Mallicote
1981-82	Donald W. Bouldin
1982-83	Ben J. Lamb
1983-84	Paul Micale
1984-85	J. Reece Roth
1985-86	Richard F. Keck
1986-87	Jan R. Sonner
1987-88	M. Don Trundle
1988-89	Rezvan R. Oskui

YEAR	VICE-CHAIRMAN
1950-51	Fred J. Baker
1951-52	Mead Warren, Jr.
1952-53	J. Warren Roberts
1953-54	Frank Cross
1954-55	Volney J. Cissna
1955-56	Hugh C. Sells
1956-57	M. Stephens Merritt
1957-58	L. E. Marshall
1958-59	Fred Chambers
1959-60	P. R. Andrews
1960-61	C. A. Duke
1961-62	John A. Brown, Jr.
1962-63	Charles H. Cain
1963-64	H. E. Church
1966-67	H. C. Nichols, Jr.
1967-68	Raymond A. Rochat
1968-69	Charles H. Weaver
1969-70	Robert E. Bodenheimer
1972-73	J. Frank Pierce
1977-78	Joe Googe
1978-79	Claude Harvey
1979-80	Richard Mallicote
1980-81	Donald W. Bouldin
1981-82	Ben Lamb
1982-83	Paul Micale
1983-84	J. Reece Roth
1984-85	Richard F. Keck
1985-86	Jan R. Sonner
1986-87	M. Don Trundle
1987-88	Rezvan R. Oskui
1988-89	James J. Goddard, Jr.

YEAR	SECRETARY-TREASURER	ASST. SECRETARY-TREASURER
1950-51	John W. Crabtree	W. M. Stanley
1951-52	W. M. Stanley	Claiborne L. Pittman
1952-53	Claiborne L. Pittman	Leonard J. Munson
1953-54	Leonard J. Munson	Thomas A. Pearson
1954-55	Thomas A. Pearson	Frank W. Smith
1955-56	Frank W. Smith	Jack Witherspoon
1956-57	Jack Witherspoon	J. C. Barker
1957-58	J. C. Barker	H. C. Nichols
1958-59	H. C. Nichols	F. Atkinson
1959-60	H. C. Nichols	W. M. Clark
1960-61	W. M. Clark	
1961-62	John W. Chadwick, Jr.	J. L. Roach, Jr.
1962-63	J. D. Tillman, Jr.	Vacant
1963-64	J. D. Tillman, Jr.	John E. Holladay
1965-66	Roy C. Nix	
1966-67	Raymond A. Rochat	M. N. Sprouse
1967-68	M. N. Sprouse	R. E. Bodenheimer
1968-69	R. E. Bodenheimer	J. W. Keller
1969-70	J. W. Keller	Matt R. Halter
1972-73	Martin L. Hartley	Frederick W. Symonds
1973-74	Frederick W. Symonds	
1975-76	Edward Deason	
1976-77	John F. Pardue	
1977-78	Jane Black	Richard Mallicote
1978-79	Richard Mallicote	Donald W. Bouldin
1979-80	Donald W. Bouldin	Ben Lamb
1980-81	Ben Lamb	Glen Thompson
1981-82	Ben Lamb	Jack Lawler
1982-83	Jack Lawler	Richard O'Donnell
1983-84	Richard O'Donnell	Ray McKnight
1984-85	Ray McKnight	M. Don Trundle
1985-86	M. Don Trundle	Francis B. Rosenzweig
1986-87	Francis B. Rosenzweig	David J. Helms
1987-88	David J. Helms	L. Susan Baker
1988-89	L. Susan Baker	Dragana Brzakovic

YEAR	DIRECTORS
1950-51	G. N. Hughes, Henry E. Williams, O. S. C. Hammer
1952-53	Fred J. Baker, W. M. Stanley, John W. Crabtree
1954-55	J. Warren Roberts, Fred Chambers, W. O. Leffell
1955-56	Frank Cross, G. E. Farmer, W. T. Zumwalt
1956-57	Volney T. Cissna, O. S. C. Hammer, J. W. Crabtree
1957-58	H. C. Sells, J. C. Buchanan, L. J. Munson
1959-60	L. E. Marshall, J. R. Barnwell, M. L. Rockfield
1961-62	P. R. Andrews, Paul H. Shoun, W. L. Parham
1962-63	Paul C. Cromwell, William Paynter, Jr., Lester R. Sellers
1963-64	John A. Brown, Howard Dycus, Clarence H. Mock
1966-67	J. E. Goff, E. R. Snyder
1967-68	R. A. Bailey, B. M. Maxwell
1968-69	Roy C. Nix, J. Frank Pierce
1969-70	Richard R. Lewis, Will O. Leffell, Trygve J. Tolnas
1972-73	Walter L. Green, James B. Kelly, Jr.
1977-78	Jim Boehms, Raymond A. Rochat
1978-79	William Dainwood, Frederick W. Symonds
1979-80	Frederick W. Symonds, Jim Blair
1980-81	Pete Peterfruend, Earl Deason
1981-82	Frederick W. Symonds, Raymond A. Rochat
1982-83	J. Reece Roth, Tom Akos
1983-84	Donald W. Bouldin, Jane Black
1984-85	Pete Peterfruend, William Dainwood
1985-86	Clarence H. Mock, Donald W. Bouldin,
1986-87	Donald W. Bouldin, J. W. Crabtree
1987-88	J. W. Crabtree, Frederick W. Symonds
1988-89	Frederick W. Symonds, J. Reece Roth

YEAR	DIRECTORS
1950-51	G. N. Hughes, Henry E. Williams, O. S. C. Hammer
1952-53	Fred J. Baker, W. M. Stanley, John W. Crabtree
1954-55	J. Warren Roberts, Fred Chambers, W. O. Leffell
1955-56	Frank Cross, G. E. Farmer, W. T. Zumwalt
1956-57	Volney T. Cissna, O. S. C. Hammer, J. W. Crabtree
1957-58	H. C. Sells, J. C. Buchanan, L. J. Munson
1959-60	L. E. Marshall, J. R. Barnwell, M. L. Rockfield
1961-62	P. R. Andrews, Paul H. Shoun, W. L. Parham
1962-63	Paul C. Cromwell, William Paynter, Jr., Lester R. Sellers
1963-64	John A. Brown, Howard Dycus, Clarence H. Mock
1966-67	J. E. Goff, E. R. Snyder
1967-68	R. A. Bailey, B. M. Maxwell
1968-69	Roy C. Nix, J. Frank Pierce
1969-70	Richard R. Lewis, Will O. Leffell, Trygve J. Tolnas
1972-73	Walter L. Green, James B. Kelly, Jr.
1977-78	Jim Boehms, Raymond A. Rochat
1978-79	William Dainwood, Frederick W. Symonds
1979-80	Frederick W. Symonds, Jim Blair
1980-81	Pete Peterfruend, Earl Deason
1981-82	Frederick W. Symonds, Raymond A. Rochat
1982-83	J. Reece Roth, Tom Akos
1983-84	Donald W. Bouldin, Jane Black
1984-85	Pete Peterfruend, William Dainwood
1985-86	Clarence H. Mock, Donald W. Bouldin,
1986-87	Donald W. Bouldin, J. W. Crabtree
1987-88	J. W. Crabtree, Frederick W. Symonds
1988-89	Frederick W. Symonds, J. Reece Roth

PROGRAM COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1951-51	Mead Warren	D. M. Brown
1952-53	W. M. Clark	Clyde S. Shipley
1954-55	John A. Brown	Iley M. Barns
1955-56	Iley M. Barns	Richard R. Lewis
1956-57	Richard R. Lewis	Paul H. Shoun
1957-58	Paul H. Shoun	Paul C. Cromwell
1959-60	John P. DeLong	A. M. McNerney
1961-62	Paul H. Merriman	John W. Crabtree
1962-63	John W. Crabtree	
1963-64	Richard R. Lewis	
1965-66	John Holladay	
1966-67	J. D. Tillman	
1968-69	J. E. Holladay	
1972-73	Frederick W. Symonds	
1973-74	Eugene Chitwood	
1984-85	David Binkley	
1986-87	M. Don Trundle	
1987-88	Rezvan R. Oskui	
1988-89	James K. Goddard, Jr.	

PUBLIC RELATIONS COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1956-57	M. D. Belding	O. S. C. Hammer
1957-58	O. S. C. Hammer	M. D. Belding
1959-60	D. H. McLean	M. D. Belding
1961-62	Louis B. Marks	John E. Holladay
1962-63	John E. Holladay	
1963-64	Roy C. Nix	
1966-67	Robert E. Bodenheimer	
1968-69	G. R. Thompson	
1972-73	John Q. Williams	
1984-85	Wayne Garber	

FELLOWSHIP AND ATTENDANCE COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	C. V. Poling	Jack Anderson
1952-53	W. L. Parham	O. S. C. Hammer
1954-55	Hal C. Nichols	B. H. Martin
1955-56	W. M. Stanley	J. C. Buchanan
1956-57	J. C. Buchanan	Thos. W. Landrum
1957-58	Thos. W. Landrum	M. L. Rockfield
1959-60	Ray North	M. D. Belding

FELLOWSHIP AND ATTENDANCE COMMITTEE - continued

YEAR	CHAIRMAN	VICE-CHAIRMAN
1961-62	John R. Sweets, Jr.	Hal C. Nichols
1962-63	Hal C. Nichols	
1963-64	N. V. Shamblin	
1966-67	Hal. C. Nichols	
1967-68	Bob Cawthon	
1968-69	F. W. Chandler	
1972-73	Charles E. West	
1984-85	Jan R. Sonner	

PUBLIC RELATIONS, ATTENDANCE, & FELLOWSHIP COMMITTEE

YEAR	CHAIRMAN
1986-87	J. W. Crabtree
1987-88	J. W. Crabtree
1988-89	J. W. Crabtree

MEMBERSHIP COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	R. G. Obrecht	J. P. Treis
1952-53	Alan Razovsky	J. T. McLaughlin
1954-55	C. V. Poling	M. S. Merritt
1955-56	W. M. Stanley	Robert Embry
1956-57	Fred A. Hoeke	Harry St. Clair
1957-58	R. K. Buffett	Fred A. Hoeke
1959-60	P. H. Shoun	Campbell McCord
1961-62	Albert C. Kelley, Jr.	H. E. Church
1962-63	H. E. Church	
1963-64	Graham W. Hoffman	

TRANSFERS COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	John Porter Gillespie	Richard M. Ferrill
1952-53	Fred G. Stewart	Henry F. Corden
1954-55	L. E. Marshall, Jr.	C. P. Almon, Jr.
1955-56	C. P. Almon, Jr.	B. Painter
1956-57	Wm. Paynter, Jr.	C. P. Almon, Jr.
1957-58	C. A. Duke	Wm. Paynter, Jr.
1959-60	C. Ray Goodroe	Wm. Paynter, Jr.
1961-62	James R. Barnwell	Wm. Paynter, Jr.
1962-63	Wm. Paynter, Jr.	
1963-64	Lester R. Sellers	

MEMBERSHIP & TRANSFERS COMMITTEE

YEAR	CHAIRMAN
1966-67	Holbert H. Long
1968-69	C. E. Fox
1972-73	C. E. Fox
1984-85	Fred Dyer
1985-86	Robert F. Adkinson
1986-87	Paul Micale
1987-88	Paul Micale
1988-89	M. Don Trundle

STUDENT ACTIVITIES COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1951-52	V. K. Yagodkin	C. A. Duke
1952-53	W. O. Leffell	James R. Barnwell
1954-55	Luther Ricketts, Jr.	G. E. Farmer
1955-56	G. E. Farmer	J. F. Pierce
1956-57	Charles H. Weaver	Frank W. Smith
1957-58	Frank W. Smith	John Crowder
1959-60	B. H. Martin	Charles H. Cain
1961-62	W. A. Campbell	John P. Delong
1962-63	John P. Delong	
1963-64	William P. Winstead	
1966-67	H. P. Neff	
1968-69	Frederick W. Symonds	
1972-73	Marshall Pace	
1984-85	W. C. Graham	
1985-86	W. C. Graham	
1986-87	Buddy Lee	
1987-88	Frederick W. Symonds	
1988-89	James K. Goddard, Jr.	

YEARBOOK COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	J. W. Crabtree	John D. Sharp
1952-53	C. L. Pittman	S. E. Lyons
1954-55	Thomas A. Pearson	L. J. Munson
1955-56	L. J. Munson	James Wilson
1956-57	James Wilson	L. J. Munson
1957-58	W. R. Gilkeson	Thomas A. Pearson
1959-60	Robert C. St. Clair	James W. Wilson
1961-62	Leonard R. Smith	James W. Wilson
1962-63	James W. Wilson	
1963-64	George Rehnquist	
1966-67	Willard W. Bedwell	
1968-69	T. J. Tolnas	

YEARBOOK COMMITTEE - continued

YEAR	CHAIRMAN
1972-73	Raymond A. Rochat
1980-81	Don W. Bouldin
1983-84	Robert L. Spreng

HISTORICAL COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	L. E. Marshall, Jr.	R. B. George
1952-53	L. E. Marshall, Jr.	R. B. George
1954-55	L. E. Marshall, Jr.	J. W. Southerland
1955-56	L. E. Marshall, Jr.	J. W. Southerland
1956-57	L. E. Marshall, Jr.	J. W. Southerland
1957-58	J. W. Southerland	J. W. Crabtree
1959-60	J. W. Southerland	J. W. Crabtree
1961-62	Robert C. St. Clair	Charles H. Cain
1962-63	Howard Dycus	
1963-64	A. A. Guldi	
1966-67	H. L. McCloud	
1968-69	H. M. Bankus	
1972-73	Fred W. Chandler	

YEARBOOK, PUBLICATIONS, & HISTORICAL COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1984-85	Robert L. Spreng	
1985-86	Robert L. Spreng	
1986-87	Robert L. Spreng	
1987-88	Robert L. Spreng	
1988-89	Raymond A. Rochat	Jan R. Sonner

AWARDS COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	P. C. Cromwell	R. A. Merrill
1952-53	H. E. House	R. Bruce Shipley
1954-55	Stanley Y. Merritt	R. G. Obrecht
1955-56	R. G. Obrecht	Ralph Harder
1956-57	James E. Goff	Wm. R. New
1957-58	Wm. R. New	J. E. Goff
1959-60	Godwin Williams	J. P. Treis
1961-62	Paul H. Shoun	M. L. Rockfield
1962-63	Campbell McCord	
1966-67	Herbert E. Church	
1968-69	Holbert H. Long	
1972-73	Charles H. Weaver	

TECHNICAL GROUPS - continued

YEAR	CHAIRMAN	VICE-CHAIRMAN
1957-58	Fred Chambers, John A. Crowder	
1959-60	J. R. Barnwell	H. A. Taft
1961-62	James W. Southerland	Raymond A. Rochat
1962-63	Roby Hartley	
1963-64	Martin L. Hartley	
1966-67	L. H. Luallen, G. D. Rehniquist	R. H. Morris, A. M. Hill, Jr.
1967-68	R. H. Morris, A. M. Hill, Jr. A. M. Hill, Jr.	
1968-69	E. W. Parish, Jr., James B. Kelly, Jr.	Unknown W. C. Linde

PLANNING COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	H. E. House	M. S. Merritt
1952-53	G. N. Hughes	H. O. Murphy
1954-55	Fred A. Hoeke	K. E. Hapgood
1955-56	K. E. Hapgood	R. W. McEver
1956-57	Mead Warren	W. M. Stanley
1957-58	W. M. Stanley	Frank Cross
1959-60	T. M. Swingle	Frank Cross
1961-62	James R. Barnwell	Wm. Paynter, Jr.
1962-63	Frank Cross	
1963-64	Phillip R. Andrews	

COMMUNICATIONS COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	H. E. Church	T. E. Harris, Jr.
1952-53	Ralph Harder	M. B. Clayton
1954-55	Willard W. Bedwell, Jr.	John W. Fike
1956-57	Roy C. Nix	John Donelson, Jr.

PUBLICITY COMMITTEE

YEAR	CHAIRMAN	VICE-CHAIRMAN
1950-51	C. E. Tarwater	Iley M. Barnes
1952-53	M. D. Belding	J. T. Moroney
1954-55	M. D. Belding	A. M. Razovsky
1955-56	A. M. Razovsky	M. D. Belding

UTK STUDENT BRANCH

YEAR	CHAIRMAN
1981-82	Ali Najem
1982-83	Tom Swift
1983-84	Jeanie Joinman
1984-85	Eric Vondy
1985-86	Mark J. Monday
1986-87	Buddy Lee
1987-88	James Horner
1988-89	Greg Kenney

PELLISSIPPI TCC STUDENT BRANCH

YEAR	CHAIRMAN
1986-87	Mark Frizzell
1987-88	Mark Frizzell
1988-89	Sarah Carr

AWARDS

YEAR	TYPE	RECIPIENT
1973-74	Senior Service & Dedication	Raymond A. Rochat
1973-74	Service & Dedication	Ben Lamb
1975-76	Outstanding Service & Dedication	Raymond A. Rochat
1983	Outstanding Service Award	Richard Mallicote
1983	Outstanding Service Award	Frederick W. Symonds
1983	Outstanding Engineer Award	Ernest L. Hall
1983	IEEE Centennial Medal	Ernest L. Hall
1983	IEEE Centennial Medal	Ben J. Lamb
1983	IEEE Centennial Medal	Richard Mallicote
1983	IEEE Centennial Medal	Lawrence Peterfreund
1983	IEEE Centennial Medal	Federick W. Symonds
1984	Outstanding Service Award	Richard F. Keck
1984	Outstanding Engineer Award	J. Kenneth Greene
1985	Region III Outstanding Engineering Educator	Robert E. Bodenheimer
1985	Outstanding Service Award	Donald W. Bouldin
1985	Outstanding Engineer Award	Clarence H. Mock
1985	IEEE USAB Appreciation	James J. Rooney
1986	Region III Exemplary Section Award	Chairman, Richard F. Keck
1986	Outstanding Service Award	J. W. Crabtree
1988	TSPE Young Engineer of the Year	James J. Rooney

HISTORY

For several years before 1936, J. Elmer Housley, Dr. J. G. Tarboux, Chase Hutchison, E. E. George, and other active members of A.I.E.E. in East Tennessee felt the need for a Section in the eastern part of the state. Several persons associated with the electrical industry expressed their desire to join the Institute if a local Section was formed but there were not enough members and applicants for the formation of a new section. The beginning of TVA and the expansion of local electrical industries increased the number of Institute members in the area. This created the need for a local Section.

On May 25, 1936, the Board of Directors of the A.I.E.E. authorized the establishing of the East Tennessee Section. The Board assigned to it all the State of Tennessee east of the boundaries of Williamson, Robertson, Davidson, Marshall, and Giles counties. The first meeting was on September 2, 1936, and the Section organized, with Chase Hutchison as the first chairman and 52 charter members. There were ten meetings the first year with an average attendance of 61. Section Institute membership increased from 52 to 82 and the first two local members were received that year.

During the year 1937-38 there were nine meetings with an average attendance of 87. Section Institute membership increased to 102 and local membership increased to four.

During the year 1938-39 the membership increased to 108 Institute members and 10 local members. There were alternate monthly meetings in Knoxville and Chattanooga and a joint meeting with Muscle Shoals, Memphis, and Alabama Sections and student branches from the universities of Alabama, Auburn, Vanderbilt, and The University of Tennessee. The Section took an active part in endorsing the model law for registration of professional engineers.

During the period from 1939 to 1946, the members were busy on preparation for war and actual war effort. Travel was discouraged and later restricted to result in local meetings combined with A.S.C.E., A.S.M.E., and other professional societies. There were technical group meetings and attendance was good. The membership increased to 288 in 1945, and this Section grew from twentieth to seventeenth in size among all Sections.

In 1946-47, restrictions on travel were removed and 25 regular meetings and additional technical meetings held. The membership increased from 288 to 313. Mr. J. E. Housley, from the East Tennessee Section, was National President.

During 1947-48, the Section membership increased to 342 members. Part of this increase was due to the organization of the Oak Ridge Subsection. A total of thirty regular and technical meetings were held with one joint meeting in Athens and a social outing at Tapoco and the annual business and technical meeting at Watts Bar. The Southern District Student Conference was held at The University of Tennessee on April 9 and 10.

During 1949-50, the Oak Ridge Subsection became the Oak Ridge Section of the Institute. Roane and Anderson counties were assigned to the Oak Ridge Section. After losing about 100 members to Oak Ridge, the East Tennessee Section had 333 members before the Muscle Shoals Subsection was added. The Muscle Shoals Section became the Muscle Shoals Subsection and was added to the East Tennessee Section at the end of the year. In addition to twenty-three regular meetings in Knoxville and Chattanooga, one joint meeting was with the Oak Ridge Section.

The year 1950-51 was a year marked by many technical programs. Some growth in membership offset the losses to the Oak Ridge Section last year. During the year, 34 members were added to give a net total of 345 members. The boundary between the East Tennessee Section and the Nashville Section was further defined by an agreement with the Nashville Section. A report of the boundary was made to the national organization.

In the year 1951-52, the membership increased to a total of 353 members, with twenty-nine new members received during the year. In addition to twenty-three regular technical meetings, there were two social meetings.

John D. Harper was elected National Vice-President from District 4 for the 1951-53 term, but served only three months before moving to Texas.

In the year 1953-54, subsections were formed at Tullahoma, Tennessee, and Huntsville, Alabama. This reflected the development of special engineering projects in this area. These subsections were very helpful to the membership growth in that the Section's membership increased sharply to 406 by August 1, 1954. There were three general meetings during this period, one of which was at the Arnold Engineering Works at Tullahoma and another at the Kingston Steam Plant of the Tennessee Valley Authority.

C. P. Almon, Jr. served as Secretary of District Four for the two-year term 1951-53. He served as National Vice-President from District Four for the 1953-55 two-year term.

In the two years 1955-57, the Section continued to experience a strong membership growth and to have more meetings. The activities of the several subsections were a major contributor to this increase.

Considerable visitation of the membership between the Section and subsections was also of benefit to the Section.

At the Annual Meeting, in May 1957, a change in the Bylaws was approved which required the incoming officers to assume office on June 1 rather than August 1.

During the year 1958-59, the Section membership continued to increase. By the last of August, 1959, there was a total of 550 members. During this same period the Upper East Tennessee Subsection was formed. L. R. Sellers received the Fellow Award for contributions to coordination of design of large hydroelectric and steam electric plants.

At the annual meeting the Section Bylaws were amended. Sections 13 and 14 were changed so in the future a biographical sketch of each candidate would be with the ballot for the election of officers.

The years 1959-61 were very eventful. Effective December, 1959, the Tullahoma Subsection was granted section status and became the Middle Tennessee Section. In February, 1961, the Huntsville Subsection became the North Alabama Section with the Muscle Shoals Subsection attached. Sections 35, 36, and 37 of the Bylaws were cancelled to reflect these changes. The total membership of the East Tennessee Section, after these changes, reduced to 402 (January 1, 1962).

During this period the East Tennessee Section became part of District 13 after the division of District 4 into District 4 and 13. In October, 1961, the East Tennessee Section was host to the District 13 Executive Committee meeting at Gatlinburg.

Effective June 1, 1962, the East Tennessee Section divided into two sections. One became the Chattanooga Section with headquarters in that city and the other with headquarters in Knoxville retained the East Tennessee Section name. The Upper East Tennessee Subsection, with headquarters at Kingsport, remained a part of the East Tennessee Section. After formation of the new section, the East Tennessee Section, including the Upper East Tennessee Subsection, had a total of 211 members.

Many changes occurred during 1963 and 1964. Effective January 1, 1963, the AIEE merged with the IRE to become the IEEE. On March 19, 1963, the East Tennessee Section voted to merge at the section level. The Section petitioned the headquarters of the IEEE to be recognized as the East Tennessee Section of IEEE. On

December 31, 1963, a petition for the establishing of an East Tennessee Section chapter of the Professional Technical Group on power. This petition included names of fifty-four members. On July 1, 1964, the official beginning of the charter chapter of the Power Group was recognized by IEEE Headquarters and began operations.

During the 1965-66 year the Section held eight general meetings, the annual business and social meeting at Tapoco Lodge, and a Section technical conference. The latter, consisting of a full-day technical program at The University of Tennessee, plus an inspection trip to Bull Run Steam Plant, was unique in that this was one of the first local conferences of this type held in the IEEE. Attendance at the 10 general meetings averaged 53.9 during the year. The Power Technical Group conducted four technical meetings during the year. At the close of the fiscal year in June the Section's second Professional Technical Group on Communications Technology was organized with 15 charter members. Paul C. Cromwell received the Fellow Award contribution to electrical education and research.

Professor Robert R. Riesz of Union College, Barbourville, Kentucky, was honored at the March 8, 1966, Section meeting by the presentation of a Fellow Certificate. Professor Riesz was elected Fellow based on his work with the Bell Telephone Laboratory.

The IEEE Power Generation Committee held their 1967 spring meeting in Knoxville. This meeting included a trip to the Bull Run Steam Plant and the Oak Ridge National Laboratory. The technical session included four papers on batteries and static inverters.

On January 1, 1967, Mead Warren, Aluminum Company of America, Alcoa, Tennessee, was elevated to the grade of Fellow. He was cited "for contributions in the field of power generation and transmission including specific contributions which advanced the state of the art in communication, telemetering, and the development of preventive maintenance."

During the 1967-68 year, general meetings of the Section were on the theme of Engineering Education. Deans of engineering from various southeastern universities were the speakers. The Professional Technical Group Chapters in Communications and Power provided technically oriented programs in their respective field of interest.

Late in 1968 the Section extended an invitation to the Institute to hold its 1972 Region III Convention in Knoxville. The invitation was accepted and the Convention planned for April 10, 11, and 12, 1972. Dr. J. Frank Pierce, General Chairman stated that plans were progressing nicely and were on schedule.

During the 1968-69 year, the Section held nine general meetings and the annual business and social meeting at Tapoco Lodge, with an average attendance of 51. The group chapters held meetings as follows: Comm-Tech two (avg. 20), Power three (avg. 47). The Subsection reported three general meetings plus an inspection tour.

During the 1969-70 year, the Section held eight general meetings and the annual business and social meeting at Tapoco Lodge, with an average attendance of 52. The Power Group Chapter held three meetings with an average attendance of 18. The Subsection reported three general meetings.

Membership in the East Tennessee Section continued to grow over the years. By May, 1970, membership in the Section was 240, plus 65 in the Upper East Tennessee Subsection, and 103 in the Student Branch at The University of Tennessee.

On January 1, 1970, Chancellor Charles H. Weaver, The University of Tennessee, was elected a Fellow Member of IEEE. He was cited "for leadership in engineering systems." Presentation of the Certificate of Election was made by John D. Harper, F'50, President of the Aluminum Company of America, at the January, 1970, meeting.

During the 1970-71 year, the East Tennessee Section held nine general meetings, two of which were joint meetings with the Power Engineering Society Chapter, and the annual business and social meeting at Tapoco Lodge. The average attendance at the general meetings was 37. The Power Engineering Society Chapter held two meetings in addition to the two joint meetings with the Section with an average attendance of 27. The Upper East Tennessee Subsection reported two general meetings.

Membership in the East Tennessee Section as of May, 1971, was 246, plus 67 in the Subsection, and 92 in the Student Branch at The University of Tennessee. Hazen E. House, Fellow, transferred back to the East Tennessee Section.

During the 1971-72 year, the Section held nine general meetings, two of which were joint meetings with the Power Engineering Society Chapter and the annual business and social meeting at the Hyatt Regency hotel. The average attendance at the general meetings was 52. The Power Engineering Society Chapter held two meetings in addition to the two joint meetings with the Section with an average attendance of 30. The Subsection did not report any meetings.

Membership in the East Tennessee Section as of June, 1972, increased greatly to 319, plus 62 in the Upper East Tennessee Subsection, and 94 in the Student Branch at The University of Tennessee.

The East Tennessee Section was host to the 1972 Southeastern Region III Conference in Knoxville on April 10, 11, and 12, 1972. The technical program; technical exhibits; inspection trips to the Oak Ridge National Laboratory, Bull Run Steam Plant, and Knoxville Utilities Board facilities; and the ladies activities were all highly successful. The conference banquet was addressed by the President of the IEEE, Robert H. Tanner.

The Conference was attended by 395 professional delegates from throughout the world and 230 engineering students from 25 different colleges and universities. All the technical papers and presentations of the Conference were in a single publication.

During the 1972-73 year, the Section held nine general meetings, one of which was a joint meeting with the Power Engineering Society Chapter, with an average attendance of 61 members. The Power Engineering Group Chapter reported four regular meetings in addition to the joint meeting, with an average attendance of 36 members. The Subsection reported six meetings with an average attendance of 22 members. The Section bought an IEEE room banner for use at all meetings.

Because the Upper East Tennessee Subsection reported no meeting in 1971-72, a poll was taken to see if there was enough interest to continue the Subsection. It was voted to reorganize and continue. The reorganization was very successful.

During the 1973-74 year, the Section held eight general meetings, one of which was a joint meeting with the Power Engineering Society Chapter, with an average attendance of 54 members. The Power Engineering Society Chapter Group held four meetings in addition to the joint meeting with an average attendance of 35. The Subsection was active with five reported meetings and an average attendance of 15 members.

The East Tennessee Section polled the membership to see if there was enough interest to start a Computer Society Chapter. There was very little response and the motion was dropped. Also, the dissolution of the Communication Society Chapter was approved. The Section bought a podium with mike and continued to support the Engineers' Week program and the Science Fair. The Section approved the minor revision of the Bylaws by removing the Section Constitution, since the Section is governed by the Constitution of the Institute. Fellow, Bob Rochelle, transferred to the East Tennessee Section.

During the 1974-75 year, the East Tennessee Section held nine general meetings, including a joint meeting with the American Society of Mechanical Engineers (ASME) and the annual business and social meeting held at Fall Creek Falls State Park. The

average attendance was 63 members. In addition, the Power Engineering Society Chapter held four meetings with an average attendance of 35 members. The Subsection was active with seven meetings, reporting an average attendance of 19 members.

As of June, 1975, membership in East Tennessee Section was 364 plus an additional 82 in the Upper East Tennessee Subsection and 78 in the Student Branch at The University of Tennessee.

During the 1975-76 year, the East Tennessee Section held nine general meetings, one of which was a joint meeting with the Oak Ridge Section and another of which was the annual business and social meeting held at the Glenstone Lodge in Gatlinburg. The average attendance was 56 members. The Power Engineering Society Chapter held two meetings with an average attendance of 24 members. The Subsection was active, reporting eight meetings with an average of 18 members attending.

Several events highlighted the year including an IEEE display at West Town Mall as a part of Engineers' Week activities. Also, the Section participated for the first time in the annual WATTec Conference, formed in 1974 as an interdisciplinary energy conference and exhibition by local technical societies. The Professional Activities Committee was newly formed to keep members' interests up-to-date in this important area.

Membership in the East Tennessee Section as of May, 1976, was 335, plus 71 in the Upper East Tennessee Subsection, and 130 in the Student Branch at The University of Tennessee.

During the 1976-77 year, the Section, Subsection, and PES Chapter held meetings on the following topics: Computerized Axial Tomography, EXPO-82, Electrical Engineering Education at The University of Tennessee, Energy Conservation in Housing, Public Broadcasting, Fiber Conduit Capabilities, Solid State Relaying, Solar Power via Satellite, Research Opportunities in Space, Energy - The Changing Scene, and Overcurrent Protective Devices.

The WATTec Exhibition and Conference elected an IEEE member, Raymond A. Rochat as Chairperson of its first Sponsors' Committee.

During the 1977-78 year, the following were topics of the meetings: IEEE Headquarters (IEEE National President - Bob Saunders), Fluorescent Security Lighting, Environmental Law and Technical Issues, Registration of Engineers, Solid State Control System for the Bellefonte Nuclear Plant, Student Paper Contest, Engineering Leadership and Crisis Control, On the Road to Energy Independence, Uses of Microprocessors in Industry, Hierarchy of Control of Interconnected Power Systems, and the World of Standards.

The WATTec session sponsored by the Section featured talks on Evolution of Power Generation Equipment in the TVA System, the Eastern Interconnection on the Brink, the Electric Distribution System and Its Responsibility to Meet Customer Load Growth, and Continuing Valley Development by Conservative Use of Energy. Dr. J. Frank Pierce, Area 5 Chairman, co-ordinated forming of the Tennessee Council of Sections.

During the 1978-79 year, the following were topics at the meetings: Power Engineering Society - Its Structure and Activity, Raccoon Mountain, Role of Engineering in Today's Society, Computers in the Year 2001, Fiber Optics in Data Acquisition and Control Systems, Noah--the First Engineer, Nuclear Risk--Limits of Probability, Phipps Bend Nuclear Plant, Diagnostic Measurements for Nuclear Plants, Fusion Power, and Energy Conversion Alternatives. The Session at WATTec sponsored by the Section was titled "Energy and the Consumer" with talks on Energy Utilization by Institutions, Efficient Transmission and Distribution of Electrical Energy, Energy Conservation in the Major Appliance Field, and Electric Power Resources and Uses. A survey of the membership was made to ascertain their opinion on professional activities in IEEE. About 10% of the members responded with a range of opinions. Half of those responding wrote in specific comments which, in general, were not supportive of professional activities by IEEE. The results of this survey were forwarded to the IEEE headquarters.

During the 1979-80 year, the meeting topics were: Cheoah Hydroelectric Powerhouse (Tapoco, NC), An Overview of Wind-Electric Systems, Video Disc Systems, Programmable Controllers, Ethical Trilemmas: The Public, The Employer, and The Engineer, Energy--The Political Crisis, University of Tennessee Student Paper Contest, Intrinsic Safety Barriers in Control Loops, K.U.B.'s New SCADA Systems, Large Horsepower Adjustable Frequency Drives, Microprocessor Based Process Control, T.I. 9900 Microprocessor System, and Current Status of World's Fair. The session at WATTec sponsored by the Section featured talks on Electrical History of the Tennessee Valley, Energy Conservation Assistance to Small Industries in Tennessee, and Role of R & D in Solving the Energy Crisis.

In April 1980, Mike Montgomery of The University of Tennessee won first place in the Region III Student Paper Contest at SOUTHEASTCON. He was also one of four recipients from the entire Unites States to receive a $2000 IEEE Computer Society Scholarship for graduate study.

During the 1980-81 year, the meeting topics were: Controversial Issues Facing IEEE, General Aspects of MHD, High Power Solid State Linear Amplifiers, Experimental Fusion Reactors, and Electronic Home Banking. This year's WATTec conference featured talks on: The Electric Vehicle--The Future of Personal

Transportation, Institute of Nuclear Power Operations, Railroad Electrification in the South, and A Historian's Commentary on America's Electrification.

The Section was especially honored to learn that two of its members, McBeth Sprouse and J. Reece Roth, were named Fellows of the IEEE in recognition of their outstanding achievements.

During 1981-82, the following were topics at the meetings: Microprocessor-Based Control for a Spacecraft Experiment, Computer Vision and Robotics, The Computer Revolution, Implications of the Magnetic Fusion Energy Engineering Act of 1980, Quality Control Labs, and the Engineering Design Office of TVA.

The year's WATTec session featured talks on: Status of Magnetic Fusion Research, Southeastern Academic Activity in Fusion Energy, Status of Magnetic Fusion Technology, and The Role of Private Industry in Fusion Energy.

Charles W. Williams was named Fellow of the IEEE for his contributions to the development and application of nuclear instrumentation.

The Section and the U. T. Student Branch participated in the exhibits display at West Town Mall during National Engineers' Week. Personal computers and a checkers-playing robot were shown.

The Upper East Tennessee Subsection was upgraded by the Institute due to its increase in membership and activity to become the Tri-Cities Section. John Miller was instrumental in this process.

During 1982-83, the following were topics at the meetings: Electric Vehicle Technology, Cryptography and Computer Security, Superconducting Generator, and Robotics.

The year's WATTec session featured talks on Controlling the Software Function, Integrated System Approach to Distribution Automation, Economics of Volt/Var Control for Electrical Distribution Systems, and Robotics Applications in Nuclear Power Plants.

Lester C. Oakes was named Fellow of the IEEE for his contributions to nuclear power reactor control systems.

During the year the student branch at The University of Tennessee held weekly luncheons featuring professional and technical topics; actively participated in Engineers' Day on campus; manned an exhibit at West Town Mall during Engineers' Week; sponsored a variety of social events for students; and attended the Southeastern IEEE Conference in Orlando, Florida.

During 1983-84, the following were topics at the meetings: Investment Strategies for Engineers, Selecting Small Computers for Business and Professional Use, Evening Behind the Iron Curtain, Local Area Networks, Clean-up of Three Mile Island, Counting Single Atoms, and Starting Spin-off Companies.

The year's WATTec session featured talks on: Industrial Automation in the Electric Utility Industry, Design of an Automated Distribution System, Retract Thermohydraulic Model for Advanced Power Plant Simulators, New Computing Trends in the Electric Utility Industry, Atmosphere Fluidized Bed Combustion Development at TVA, A Complete Reactor Vessel Monitoring System, General Design and Design Guide For Manual Solar Water Heaters, and A Turn in the Road - Eastman Chemicals from Coal.

Ralph Gonzales was named Fellow of the IEEE for his contributions to the theory and applications of pattern recognition and digital image processing.

James C. Hung was named Fellow of the IEEE for his contributions to industrial electronics and control automation.

During 1984-85, the following were topics for the meetings: History of Electric Power in Tennessee, IEEE Centennial Lecture - 100 Years of Progress, Electromagnetic Pulse and its Implications in Electric Power and Communications Systems, Status of IEEE Professionalism Activities, The Future of Nuclear Power, Atmospheric Fluidized Bed Combustion, Robotics (at WATTec), Recent Advances in Process Control Instrumentation, and Status of the Tennessee Technology Corridor. The Section Officers honored a visit on February 12, 1985, of IEEE National President, Charles A. Eldon. On May 31, 1985, a student branch was formed at the State Technical Institute at Knoxville.

The Executive Committee voted to make a bid for the 1988 Southeast Conference which was accepted and Dr. J. Reece Roth was made General Chairman.

Dr. J. Reece Roth chaired the ad hoc Centennial Archiving Committee. Original copies of Section records were put in the UTK Special Collections Library. Microfiche copies were distributed to IEEE headquarters, adjacent IEEE sections, local historical societies, and libraries.

In fiscal year 1985-86, a chapter of the Computer Society was organized by Ms. Frances L. Sexton to further enhance the development of computer technology in the East Tennessee and Oak Ridge Sections. A Student Professional Awareness Conference was held at UTK on October 1, 1985 to help students understand and guide their professional development. Four speakers and a panel participated in the Conference. The Section contracted to hold 1988 SOUTHEASTCON in Knoxville at the Hyatt Regency hotel.

Topics for programs were: Financial Planning, PEER, Personal Mainframe, Bussman Fuse, Hypercube Parallel Processors, Three Mile Island Cleanup, Variable Frequency Drives, Risk Assessment, Future of Nuclear Power, Cellular Telephone Network, and the Section's 50th Anniversary. A Region III Exemplary Section Award was received for activities of the 1984-85 year.

During 1986-87, meeting topics included: AI Tools in Computer-Based Problem Solving (joint with Oak Ridge Section, Computer Society, and DPMA), Computervision, Positron Emission Tomography, Computer Image Color Processing, Energy in Perspective, The Chernoble Accident, Uninterruptable Power Supplies, A Parallel Symbol-Matching Co-Processor System, and A Himalayan Adventure. The average meeting attendance was 22.

A full day at WATTec, compared to the usual half day, included papers on Applications of Computervision Systems and Industrial Automation - The Connection to Competitiveness. The "Best Technical Paper" award of the conference was received by one of our IEEE speakers, Mike Kerringer. As a result, a $2,000 scholarship was presented to a University of Tennessee senior for graduate work.

The UTK Student Branch had great success with the SPAC. The Branch also received awards in the SOUTHEASTCON '87 paper and hardware contests.

During the 1987-88 fiscal year, the meeting topics included: The International Fusion Superconducting Magnet Test Facility, The Power Electronics Applications Center's Mission, Electric Heat Tracing, Probablistic Risk Assessment Techniques, Parallel Computing Architecture, Digital Signal Processing (at WATTec), Synthetic Neural Systems, Alcoa's Continuous Cold Mill Facility Tour (with SOUTHEASTCON), and China Beyond Bejing. The Oak Ridge Section was given full administration of the Computer Society Chapter which had been parented by both sections. The UTK E. E. students news publication "Common Ground" was viewed and the magazine's use as a recruiting tool noted. SOUTHEASTCON '88 was hosted April 11-13, 1988, with attendance of 242 professionals and 327 students having 143 professional papers presented and proceedings published. Three cash prizes and six special awards judges were provided for the 39th International Science and Engineering Fair held May 8-14, 1988, at the Knoxville Convention and Exhibition Center.

In fiscal year 1988-89 the State Technical Institute at Knoxville became Pellissippi State Technical Community College.

Bimal K. Bose was named Fellow of the IEEE for his contributions to power electronics and especially drive technology.

The years meeting topics were: Robotics; Reactor Remote Control System; High Power Microwave Sources; Power Electronics; Computerized Power Distribution, Automation, & Load Management; extensive seminar on Hazardous Waste Management (at WATTec); Self Tuning Controllers in Process Industries; and Tour of A. E. Staley Manufacturing Co., Loudon, Tennessee expected.

The 1985-88 East Tennessee Section yearbook was prepared for publication in the spring of 1989.

IEEE - POWER ENGINEERING SOCIETY
EAST TENNESSEE CHAPTER

The East Tennessee Chapter of the Power Engineering Society is a duly established and recognized unit of the Section membership. The members of the Chapter are those IEEE East Tennessee Section members, of any grade, who are also members of the Power Engineering Society.

The Chapter is charged with the sponsorship of meeting of the Section within the field of interest of the Power Engineering Society, subject to the approval of the Section Executive Committee. It is managed by an Administrative Committee consisting of a Chairman, a Vice-Chairman, a Secretary, the chairmen of all standing committees of the Chapter and, ex officio, the Vice-Chairman of the Section.

The Chapter is required to hold at least two meetings a year in order to maintain its active status. It has representation on the Section Executive Committee and on the Section Program Committee to ensure adequate coordination with the Section activities. While the subject matter at Chapter meetings reflects the technical interests of the Chapter, the meetings are announced to all members of the Section and are open to all members.

LIST OF PAST CHAIRMEN

C. McCord	1964-1965
J. W. Crabtree	1965-1966
G. Rehnquist	1966-1967
E. Chitwood	1967-1968
J. B. Kelly, Jr.	1968-1969
H. M. Bankus	1969-1970
J. W. Bullin	1970-1971
H. C. Russell	1971-1972
R. A. McInturff	1972-1973
H. B. Rankin	1973-1974
Frederick W. Symonds	1974-1975
J. L. Blair	1975-1976
J. W. Keller	1976-1977
Martin Hartley	1977-1978
Bob Crye	1978-1979
Earl Deason	1979-1980
Tom Akos	1980-1981
Don Webster	1981-1982
Trygve Tolnas	1982-1983
Gary Reed	1983-1984
Francis B. Rosenzweig	1984-1985
William Nelson	1985-1986
Jimmy D. Hutson	1986-1987
Paul Nesbitt	1987-1988
(vacant)	1988-1989

IEEE - POWER ENGINEERING SOCIETY

EAST TENNESSEE CHAPTER

CHAPTER BYLAWS

Article I - Name

Section 1. The organization shall be known as the IEEE East Tennessee Chapter of the Power Engineering Society.

Section 2. Hereafter "Chapter" shall refer to the organization named in Section 1. "Society" shall refer to the Power Engineering Society, and "Section" shall refer to the East Tennessee Section of the Institute of Electrical and Electronics Engineers.

Article II - Field of Interest and Objectives

Section 1. The field of interest of the Chapter shall be that defined in the Constitution of the Society.

Section 2. The Chapter shall sponsor meetings of the Section within the field of interest of the Chapter, shall provide the necessary personnel for Section committees, and shall assist in any Society symposium or conference held within the Section territory. The Chapter shall be responsible for coordination with the Section on such symposia or conferences.

Article III - Membership

Section 1. The members of the Chapter shall be those Section members of any grade who are also members of the Society.

Section 2. Affiliates of the Society in good standing with mailing addresses within the territory of the Section shall be Affiliates of the Chapter.

Article IV - Officers and Management

Section 1. The Officers of the Chapter shall be a Chairman, Vice-Chairman, and a Secretary. They shall be members of the Society and, hold the grade of Fellow, Senior Member, or Member.

Section 2. The Chapter shall be managed by an Administrative Committee composed of the officers of the Chapter, the chairmen of all standing committees of the Chapter, and the Vice-Chairman

of the Section, or his representative, ex officio. The Administrative Committee may elect by a majority vote additional members from the Chapter. The Administrative Committee shall be responsible for carrying out locally the program of the Society and shall be governed by the actions of the Administrative Committee of the Society. It shall be responsible for making such reports to the Society as may be required by the Bylaws, and for making meetings and financial reports to the Section.

Section 3. An Affiliate is eligible to serve only in appointive offices in the Chapter of the Society with which he is affiliated, or as may be authorized by the IEEE Executive Committee.

Section 4. The term of office of all Chapter officers shall be one year coincident with the term of Section officers. The Administrative Committee shall fill vacancies of office occurring during the year.

Section 5. The Chapter shall elect its own officers, except that the Office of Chairman shall be filled by automatic succession of the previous year's Vice-Chairman.

Section 6. At least 75 days prior to the Annual meeting of the Chapter, the Chairman shall appoint a Nominating Committee which shall prepare lists of candidates for election to the offices of Vice-Chairman and Secretary of the Chapter. This list shall be submitted to the Administrative Committee at least 60 days prior to said Annual Meeting.

Article V - Duties of the Officers

Section 1. The Chapter Chairman shall have general supervision of the Chapter in all its activities, shall preside at all meetings of the Chapter per se and of its Administrative Committee, and shall represent the Chapter at all meetings, Sectional, Regional, or otherwise, having business or activity embraced by the field of interest of the Society.

Section 2. The Vice-Chairman shall assume the duties of the Chairman during the latter's absence or incapacity, and shall assume any of the duties of the office of the Chairman when so directed by the Chairman.

Section 3. The Secretary shall keep accurate minutes and records for all activities of the Chapter and its Administrative Committee, and shall make such reports as are required by the Section or the Society pertaining to all activities and the financial status of the Chapter.

Section 4. As soon as feasible after election, the Chairman shall appoint the chairman of the following standing committees:

Membership
Meetings and Papers
Publicity and Arrangements

Section 5. Annually elected officers and other members of the Administrative Committee shall assume office concurrently with the newly elected officers of the Section.

Section 6. No Chapter or any officer or representative thereof shall have the authority to contract debts for, pledge the credit of, or in any way bind the Section, Society, or the IEEE.

Article VI - Standing Committees

Section 1. The Membership Committee shall encourage and promote Chapter membership consonant with membership requirements of the Constitution and Bylaws of the Society, and shall keep a current list of members in good standing in the Chapter.

Section 2. The Meetings and Papers Committee acting as part of the corresponding Section Committee, shall promote all meetings of the Chapter and of the Section, except those expressly otherwise provided for, and shall procure such papers and speakers for proper coverage of the Chapter field of interest as evidenced by the needs and requests of Chapter members. The Committee, acting for the Society, shall promote for publication such papers as appear to be in the interest of the Society members.

Section 3. The Publicity and Arrangements Committee shall be responsible for all publicity of the Chapter to keep the Section members informed of Chapter activities, and as such act in liaison with corresponding committees at Section, Regional, and Institute levels in order that the overall publicity of the IEEE be served best. It shall arrange, as part of the corresponding Section Committee, for all meeting places and required facilities.

Section 4. Each committee shall be headed by a Chairman, and shall have the power to divide its work or create a subcommittee of its own selection.

Article VII - Meetings

Section 1. The Chapter shall be required to hold not less than two meetings a year. All technical meetings sponsored by the Chapter shall be open to all Section members and to

Affiliates of the Chapter. The Chapter shall hold no such meetings without approval by the Section or by a responsible committee thereof. Notices of technical meetings promoted by the Chapter shall be sent to members and Affiliates of the Chapter.

Section 2. Each Chapter member and Affiliate so recognized shall received notice regarding meetings, symposia, conferences, conventions, and other pertinent functions and activities of the Society.

Section 3. An Affiliate shall be entitled to attend and participate in activities of the Society by payment of the same charges as IEEE members.

Section 4. The Annual Meeting of the Chapter shall coincide with that of the Section.

Section 5. The Administrative Committee of the Chapter shall hold meetings at such times as are deemed necessary to carry on the management of the Chapter. The minimum number of meetings annually shall be one. Meetings of the Administrative Committee may be called by the Chapter Chairman at his discretion, or shall be called upon request of two of its members.

No meeting shall be held unless all members of the committee shall have been notified of the time and place two days in advance of the meeting. Two-thirds of the Administrative Committee shall constitute a quorum, and a plurality vote of members attending a meeting shall be necessary to conduct business unless otherwise provided to the contrary.

Article VIII - Financial Support

Section 1. The Chapter shall administer and have authority over only such funds as are (1) budgeted for it by the Section Executive Committee or (2) given to it by the Society through the Section Secretary-Treasurer.

Article IX - Nominations and Elections

Section 1. The Nominating Committee appointed pursuant to Article VI, Section 4, shall make its report to the Administrative Committee. The Administrative Committee shall notify Chapter members of the nominations 30 days prior to the Annual Meeting. The nominations shall contain at least one name for each of the offices, and may contain additional names for the Administrative Committee. No name of any candidate shall be presented without his prior consent. Nominations by Chapter members may be made by write-in votes.

Section 2. The members of the Chapter shall elect annually the Chapter officers from the Chapter membership. Election shall be by mail ballot at least one week prior to the Section Annual Meeting. A plurality of votes cast shall elect. The Administrative Committee or its designees shall constitute a Tellers Committee.

Section 3. An Affiliate cannot serve in an elective office in the Chapter nor vote for candidates for these offices unless authorized by the IEEE Executive Committee.

Article X - Amendments

Section 1. Amendments to these Bylaws may be initiated by a majority of the Chapter Administrative Committee or by petition bearing fifteen signatures of Chapter members. A two-thirds vote of the Chapter Administrative Committee shall be required to approve proposed amendments for submittal to the Section Executive Committee for final approval.

ALL CHANGES in the Bylaws must be consonant with the Constitution and Bylaws of the IEEE, the Society, and the Section.

SECTION MEMBERSHIP ROSTER

(An alphabetical list of all members)

USE

The roster printed herein is intended solely for the benefit of the members of the IEEE and in connection with the activities of the Institute. Its use for circularization or other purposes not directly connected with those activities is not approved.

NATIONAL

A national directory of IEEE may be consulted at local technical libraries.

	Phone Number
Information/Reception/Meeting	212-705-7900
Education Services	201-562-5483
(After 4:00 p.m. answering machine)	201-981-0679
Professional Activities	202-785-0017
Publishing Services	212-705-7560
Region/Section Services	212-705-7900
Service Center (Main No.)	201-981-0060
(Direct Dial)	201-562-Extension
Standards	212-705-7960
Technical Services	212-705-7890