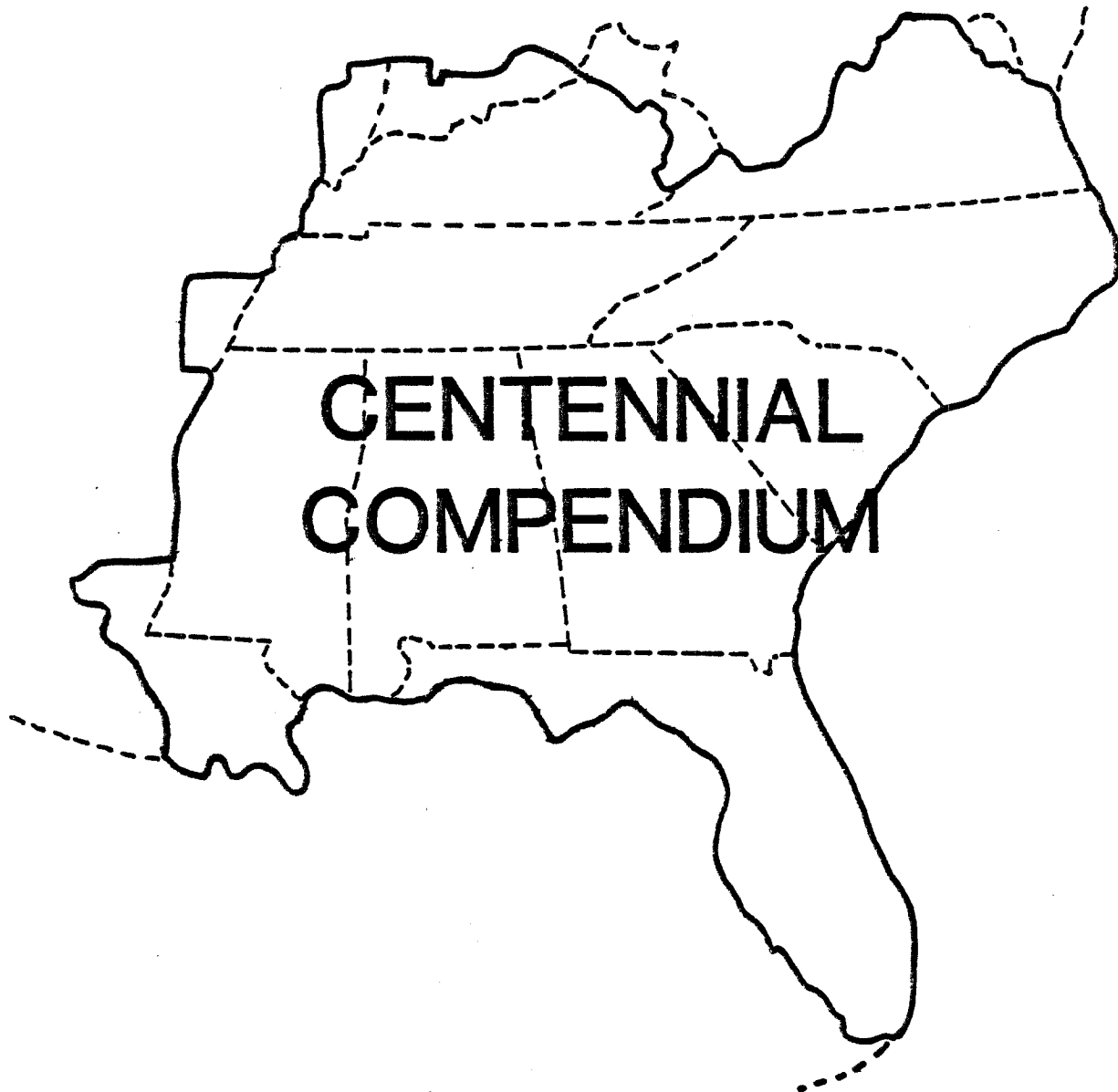


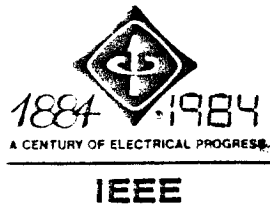
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THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC.

## REGION 3



ELECTRICAL ENGINEERING IN THE SOUTHEAST



REGION 3

CENTENNIAL COMPENDIUM

A History of Electrical Engineering in the Southeast

January 1, 1984

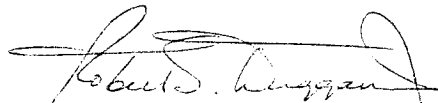
## FOREWORD

This compilation of people, events, conferences, statistics, and trivia is an attempt to record the history of electrical engineering as it has grown in significance over the years in the Southeastern United States. The many contributions great and small have been most helpful. As with any volunteer activity, there are limitations in coverage, detail, and accuracy.

While it is impossible to acknowledge all the contributors to this document, I especially wish to express appreciation to Mr. Ben V. Martin, Prof. M. A. Honnell, all past Region 3 Directors, including especially Sully Sullivan and Reed Thompson, and the IEEE History Center for comments, criticism, suggestions, and data.

The support of the Lockheed-Georgia Company in the preparation, publication, and distribution of the final copies is greatly appreciated.

It is hoped that this document will be of value to historians and that it may inspire future engineers to document their achievements, both in technology as well as in society.



Robert S. Duggan, Jr.

Director, Region 3 (1984-1985)

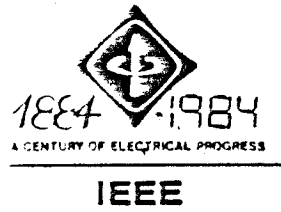


IEEE

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# I

## INTRODUCTION

## INTRODUCTION

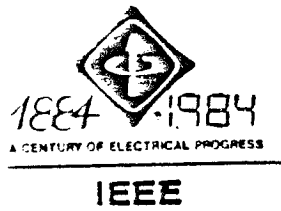
This document is one of numerous histories which have been prepared as a part of the celebration of the IEEE Centennial in 1984. It, of course, focuses on the southeastern United States -- on electrical engineering developments and the leaders of the profession through the years.

Starting from the telegraph and the electric light bulb in the mid 1800s to the exciting developments of the late 20th century, the history of electrical engineering in the southeast is fascinating.

The first president of the American Institute of Electrical Engineers was elected in 1884 -- and he was from what is now Region 3 of IEEE. Subsequently, countless other leaders of the profession have come from this region.

As we celebrate the first 100 years of our society, this Region 3 is the fastest growing region in the United States. In fact, the number of sections and the number of student chapters in Region 3 are larger than in any other region in the world, and this bodes well for the profession and for the region.

This compendium is essentially a collection of data, with some personal comments here and there. The data, however, is history -- and it speaks volumes. Region 3 is healthy, it is growing, and the future is bright!

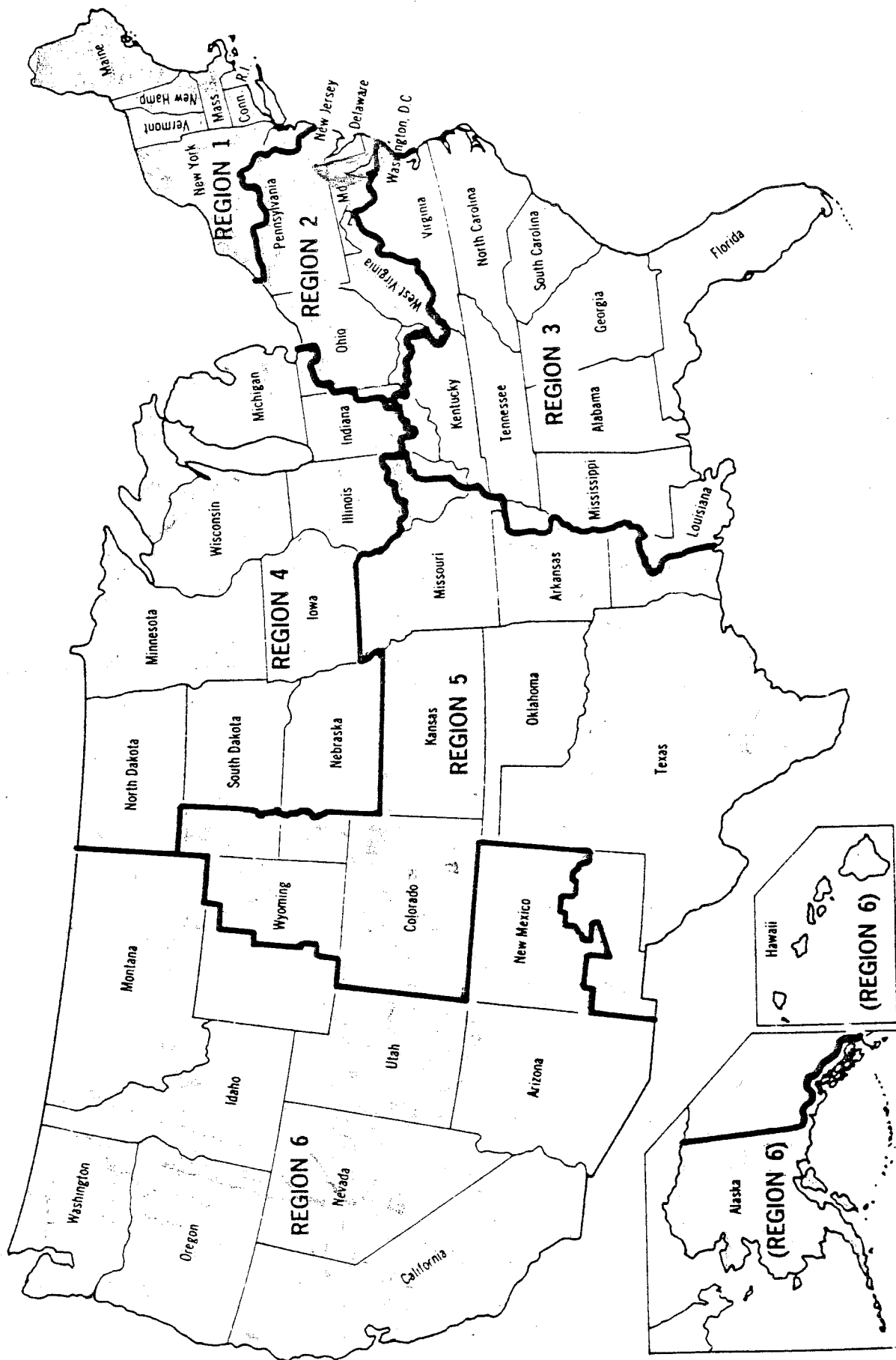


## II

### REGION 3

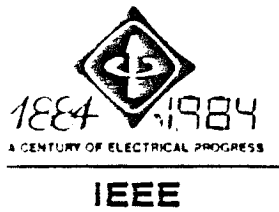
WHERE IS IT?

WHAT ARE ITS SECTIONS?



REGION 3  
GEOGRAPHICAL CODING  
1984

<u>Section/Subsection</u>	<u>Region</u>	<u>Area/ Council</u>	<u>Section</u>	<u>Subsection</u>
ALABAMA	03	6	01	
MONTGOMERY	03	6	01	01
ATLANTA	03	3	03	
ROME	03	3	03	01
BATON ROUGE	03	6	05	
BROWARD	03	4	89	
CANAVERAL	03	4	07	
CENTRAL GEORGIA	03	3	93	
CENTRAL NORTH CAROLINA	03	2	67	
CENTRAL SAVANNAH RIVER	03	7	81	
CENTRAL VIRGINIA	03	1	09	
CHARLOTTE	03	2	69	
CHATTANOOGA	03	5	11	
COASTAL SOUTH CAROLINA	03	7	83	
COLUMBIA	03	7	85	
DAYTONA	03	4	77	
EASTERN NORTH CAROLINA	03	2	71	
LOWER CAPE FEAR	03	2	71	01
EAST TENNESSEE	03	5	13	
EVANSVILLE-OWENSBORO	03	8	15	
PADUCAH	03	8	15	01
FLORIDA WEST COAST	03	4	17	
SARASOTA BRADENTON	03	4	17	01
FORT WALTON	03	4	19	
GAINESVILLE	03	4	21	
HAMPTON ROADS	03	1	23	
HUNTSVILLE	03	6	25	
MUSCLE SHOALS	03	6	25	01
JACKSONVILLE	03	4	27	
LEXINGTON	03	8	29	
LOUISVILLE	03	8	31	
MEMPHIS	03	5	33	
JACKSON	03	5	33	01
MIAMI	03	4	35	
MIDDLE TENNESSEE	03	5	37	
MISSISSIPPI	03	6	39	
NE MISSISSIPPI	03	6	39	01
MOBILE	03	6	41	
NASHVILLE	03	5	43	
NEW ORLEANS	03	6	45	
OAK RIDGE	03	5	49	
ORLANDO	03	4	51	
PALM BEACH	03	4	53	
PENSACOLA	03	4	57	
PIEDMONT	03	7	87	
RICHMOND	03	1	59	
SAVANNAH	03	3	61	
TALLAHASSEE AREA	03	4	55	
TRI CITIES	03	5	91	
VIRGINIA MOUNTAIN	03	1	65	
WEST NORTH CAROLINA	03	2	73	
WINSTON-SALEM	03	2	75	



III

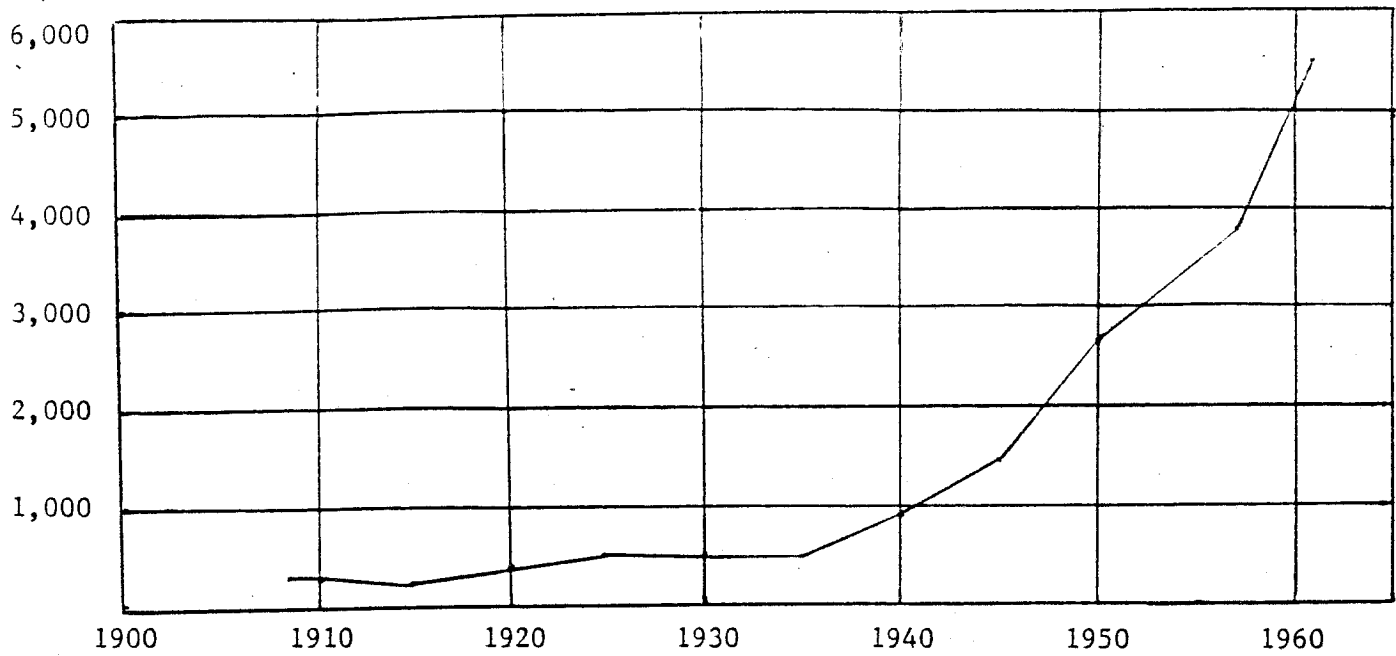
REGION 3

MEMBERSHIP AND SECTIONS

STATISTICS

Shown in the section are graphs of membership growth over the years in the respective societies of AIEE, IRE, and IEEE. The growth of the sections is also displayed. Region 3 now has the largest number of sections of any of the regions in IEEE.

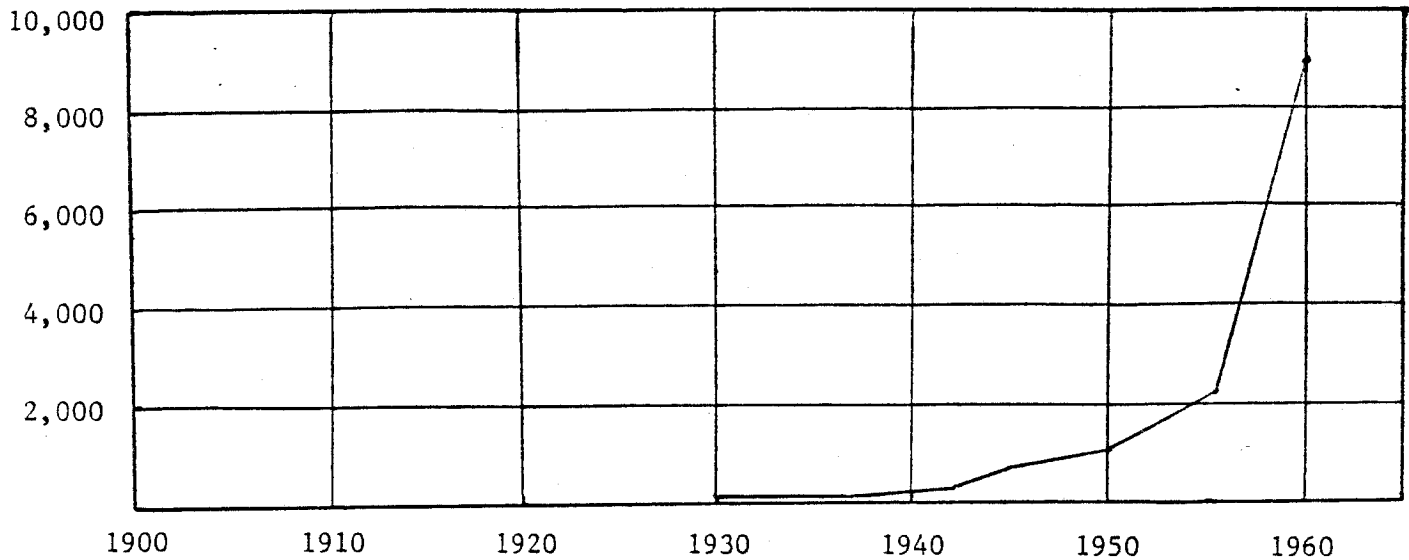
Statistics provided are based on data provided by IEEE Headquarters.



AIEE Membership in Southeast

(Statistics from which a regional breakdown can be derived are not available before 1908)

1908--300	1935--600
1910--300	1940--950
1915--250	1945--1450
1920--425	1950--2700
1925--600	1957--3850
1930--600	1961--5500

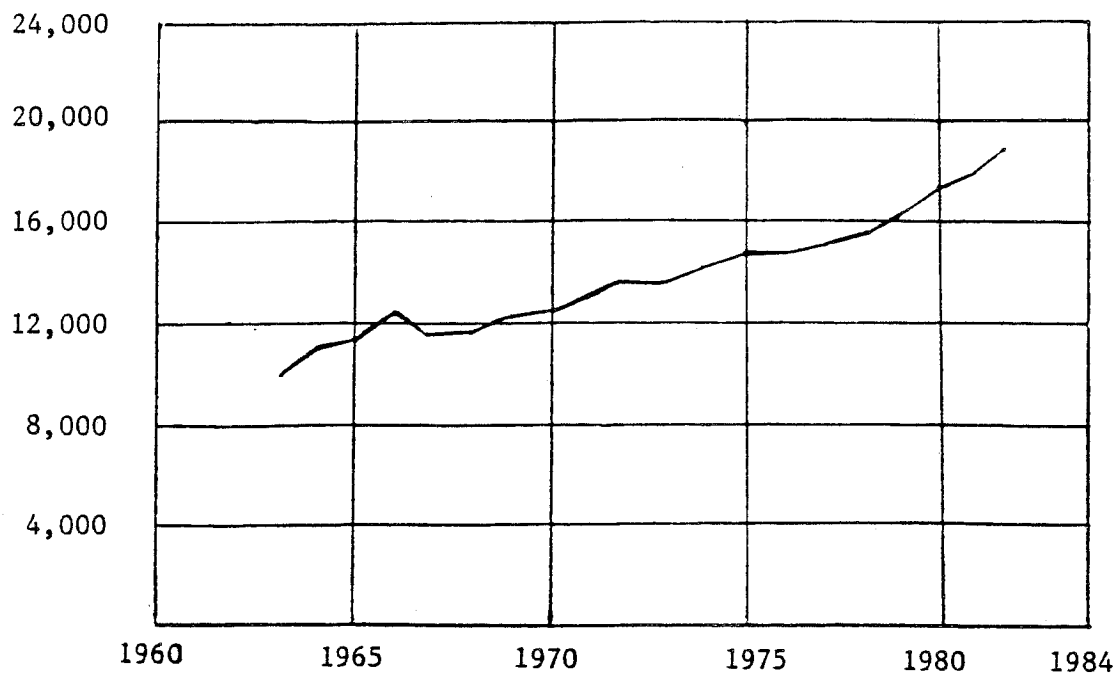


IRE Membership in Southeast

(Statistics from which a regional breakdown can be derived are not available before 1930)

1930--160	1950--1200
1937--140	1955--2200
1942--250	1960--9000
1945--750	





IEEE Membership in Region 3  
(not counting students)

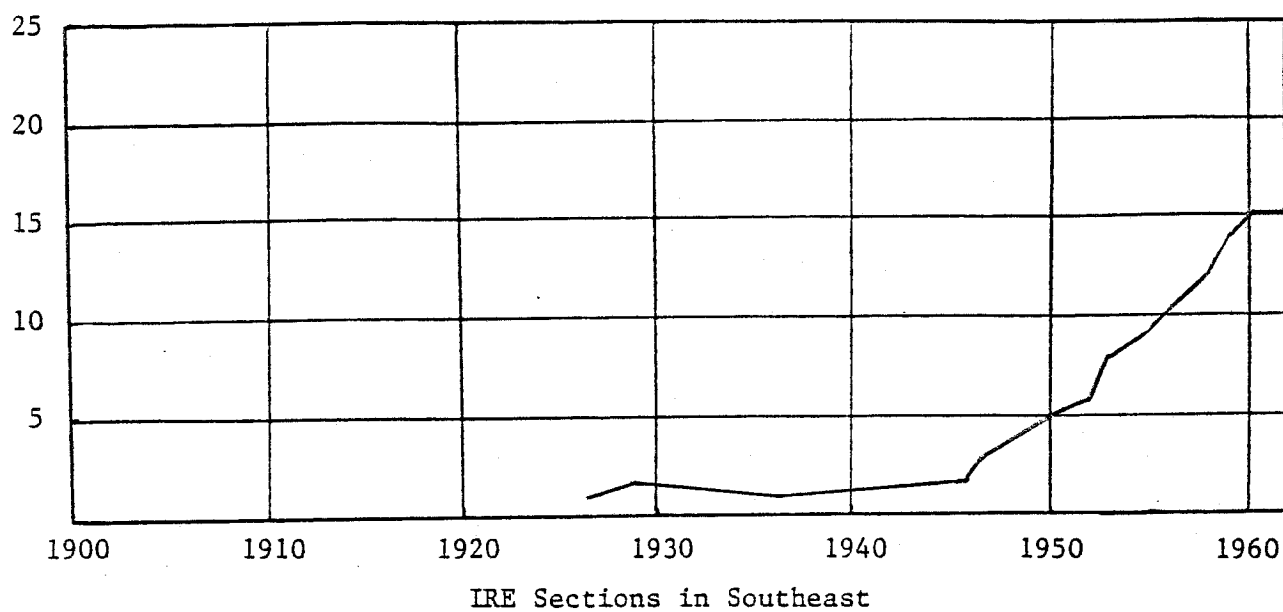
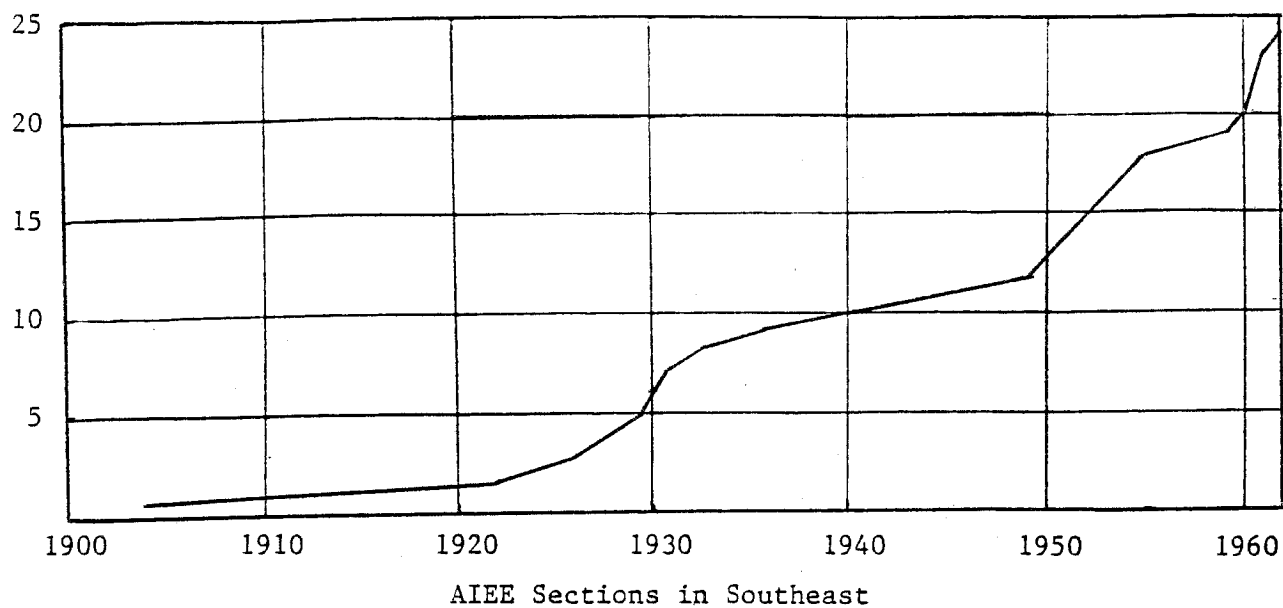
1963--10,266	1973--13,627
1964--11,104	1974--14,227
1965--11,306	1975--14,578
1966--12,404	1976--14,419
1967--11,588	1977--14,931
1968--11,707	1978--15,412
1969--12,153	1979--16,553
1970--12,496	1980--17,528
1971--12,955	1981--18,089
1972--13,638	1982--19,183

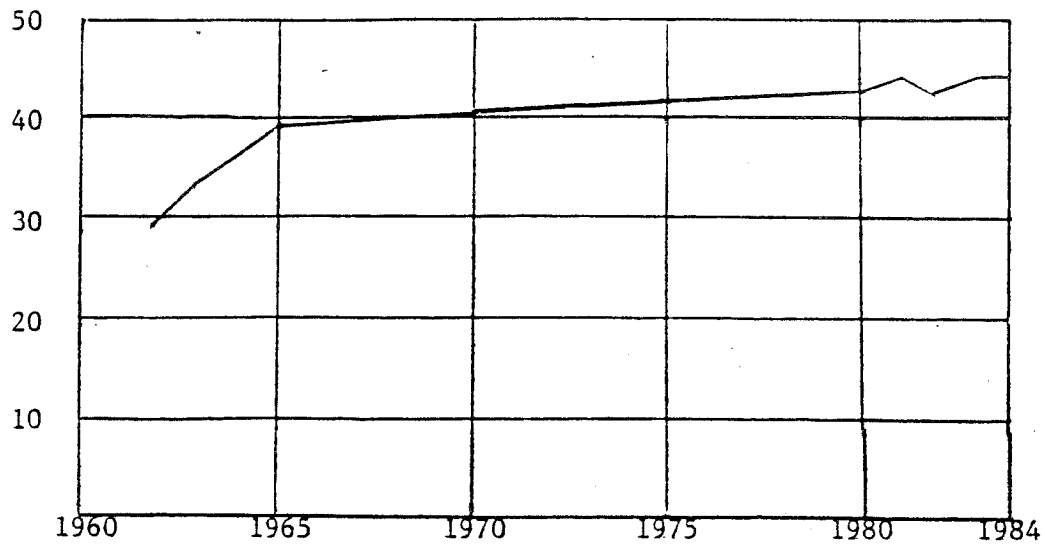
Establishment Dates of Sections in Area that is now Region 3

	<u>AIEE</u>	<u>IRE</u>	<u>IEEE</u>
Alabama	1929		
Atlanta	1904	1927	
Baton Rouge	1955		
Broward			1975
Canaveral		(1)1952	
Central Florida	1960		
Central Georgia			1983
Central North Carolina			1965
Central Savannah River			1972
Charlotte			1965
Chattanooga	1962		
Daytona			1965
East Tennessee	1936		
Eastern North Carolina			1965
Evansville-Owensboro		1950	
Florida West Coast	1952	1956	
Gainesville		1959	
Gulf Coast	1953		
Hampton Roads	1961		
Huntsville		1953	
Lexington			1963
Jacksonville	1931		
Louisville	1926	1947	
Memphis	1930		
Miami	1949	1950	
Middle Tennessee	1959		
Mobile		1960	
Nashville	1951		
New Orleans	1933	(2)	
North Alabama	1961		
North Carolina	1929	1957	
North Carolina-Virginia		(3)1946	
Northwest Florida		1955	
Oak Ridge	1950		
Orlando		1959	
Palm Beach	1961		
Panama City			(4)1963
Pensacola			1963
Piedmont			1972
Richmond			1963
Savannah	1954		
South Carolina	1940	1958	
Tallahassee Area			1980
Tri Cities			1981
Virginia	1922	1957	
Virginia Mountain	1949		
Western North Carolina			1965
Winston-Salem			1965

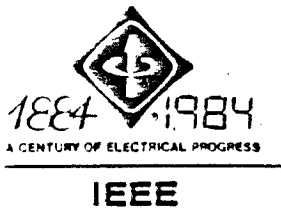
#### Notes on Section Founding Dates

- (1) Established in 1952 as Central Florida; changed to Canaveral in 1962.
- (2) Established in 1929; dissolved in 1937; re-established in 1953.
- (3) Established in 1946; dissolved in 1957 with the formation of North Carolina and Virginia sections.
- (4) Dissolved in 1982.





IEEE Sections in Region 3



IEEE

IV

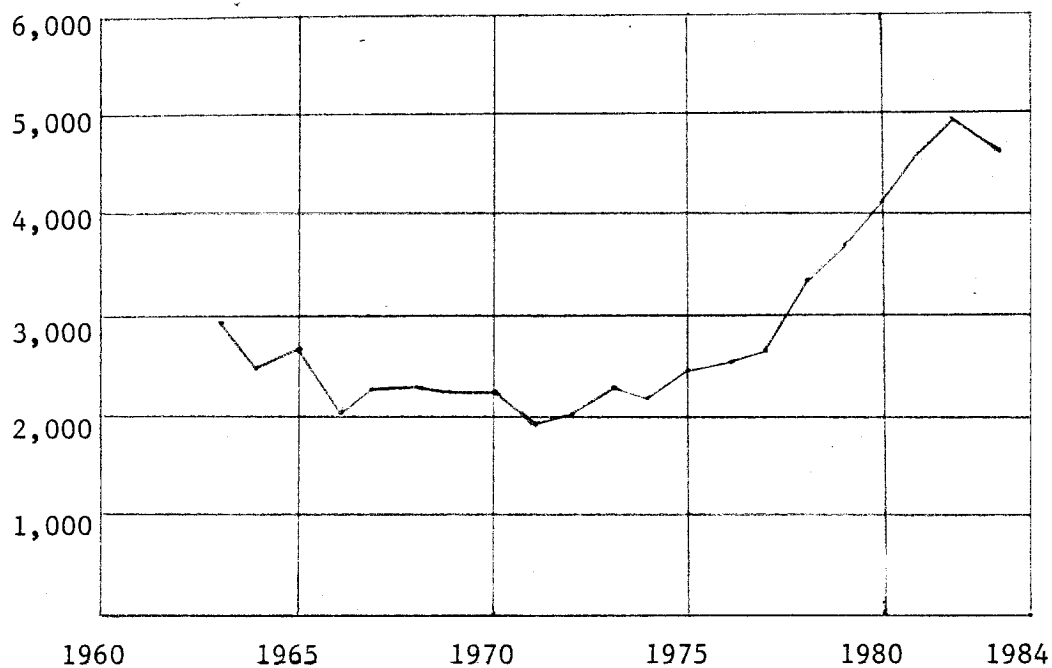
REGION 3

STUDENTS & STUDENT BRANCHES

STATISTICS

This section depicts the rapid growth in student membership in the professional society and the related increase in student branches. Region 3 now has the most student branches -- by far -- of any of the IEEE regions.

Statistics provided are based upon data provided by IEEE Headquarters.

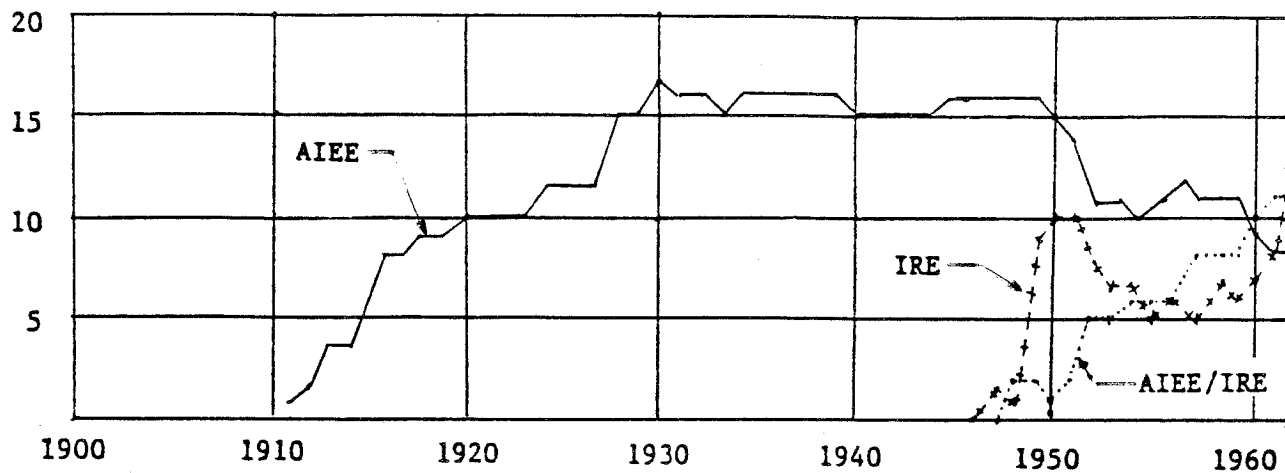


IEEE Student Membership in Region 3

1963	2951
1964	2460
1965	2693
1966	2032
1967	2301
1968	2348
1969	2329
1970	2264
1971	1980
1972	2206
1973	2289
1974	2125
1975	2495
1976	2631
1977	2735
1978	3310
1979	3791
1980	4115
1981	4621
1982	4953
1983	4532

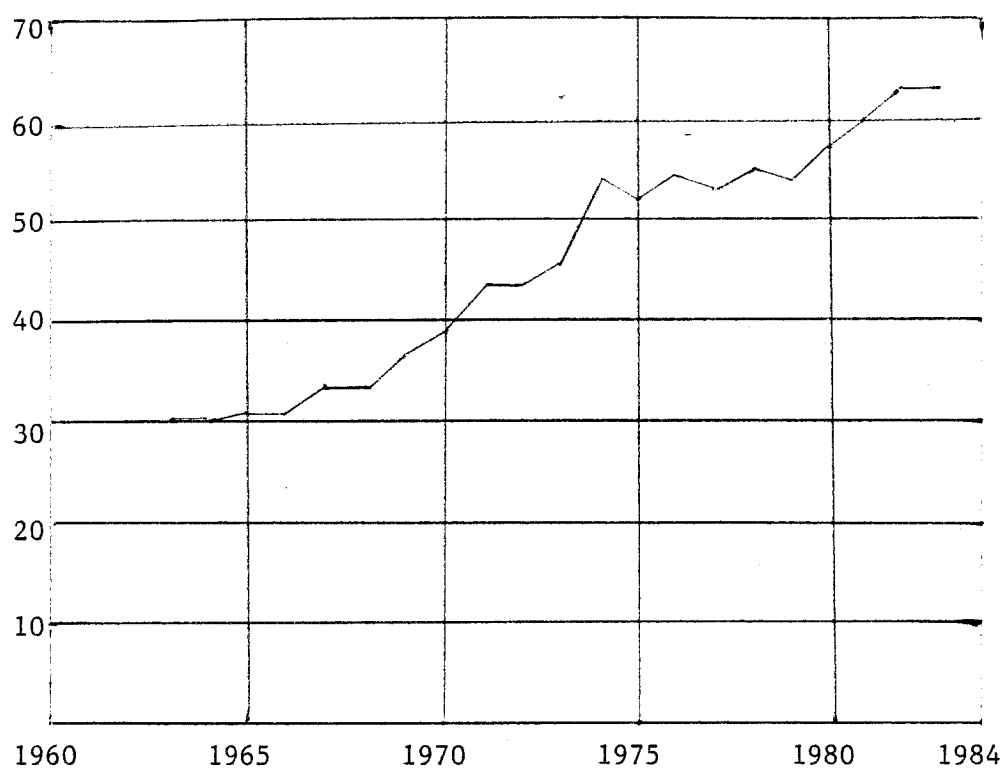
(1983 figures are as of 31 July)





Number of AIEE, IRE, and Joint AIEE/IRE Student Branches in Southeast

	<u>AIEE</u>		<u>AIEE</u>		<u>AIEE</u>	<u>IRE</u>	<u>AIEE/IRE</u>
1911	1	1929	15	1947	16	2	
1912	2	1930	17	1948	16	1	2
1913	4	1931	16	1949	16	9	2
1914	4	1932	16	1950	15	10	1
1915	8	1933	15	1951	14	10	2
1916	8	1934	16	1952	11	8	5
1917	9	1935	16	1953	11	7	5
1918	9	1936	16	1954	10	7	6
1919	9	1937	16	1955	11	5	6
1920	10	1938	16	1956	12	6	6
1921	10	1939	16	1957	11	5	8
1922	10	1940	15	1958	11	7	8
1923	10	1941	15	1959	11	6	8
1924	12	1942	15	1960	9	7	10
1925	12	1943	15	1961	8	8	11
1926	12	1944	16	1962	8	13	11
1927	12	1945	16				
1928	15	1946	16				



IEEE Student Branches in Region 3

1963	30
1964	30
1965	31
1966	31
1967	34
1968	34
1969	37
1970	39
1971	43
1972	43
1973	46
1974	54
1975	52
1976	54
1977	53
1978	56
1979	55
1980	58
1981	60
1982	63
1983	63

(1983 figures are as of 31 July)



**IEEE**

V

REGION 3

OFFICERS THROUGH THE YEARS

### THOSE WHO HAVE SERVED

Region 3 can be proud of the many volunteers who through the years have served the profession. Records are incomplete, and it is impossible to ever completely list the many Region 3 engineers who have served at the national level in offices and in committees. Of real significance, however, is the fact that at least one president of the AIEE, the IRE, and the IEEE was a native son from Region 3.

In fact, the very first president of AIEE, Mr. Norvin Green, was born in New Albany, Indiana -- a part of IEEE Region 3. He served two terms (1884-1886). Mr. William S. Lee, a native of South Carolina, was the 34th AIEE president, serving 1930-1931. Mr. Lee was also the first AIEE Fellow named from Region 3. The fourth president of IRE was a native Virginian, John Stone Stone, serving in 1915. He also was the first IRE Fellow named from Region 3. Mr. Joseph K. Dillard, a native of South Carolina, served as the 14th president of IEEE in 1976.

Brief biographical sketches of Green, Stone, Lee, and Dillard are included, along with a partial listing of the many, many Region 3 volunteers who have served the Institute and the profession through the years.

NORVIN GREEN  
FIRST PRESIDENT OF AIEE (1884 - 1886)  
(Native of New Albany, Indiana)

Norvin Green followed a rather circuitous route to the field of electrical engineering. He was born in New Albany, Indiana, on 17 April 1818, but soon moved to Kentucky. When the family farm failed in 1834, Green began earning his own living by running a floating grocery store on a flatboat up and down the Ohio and Mississippi rivers. He then worked as a wood-cutter, saving money for his medical training. He first apprenticed to a Kentucky doctor and then attended the medical school of the University of Louisville, from which he graduated in 1840. He took a position as physician at the Western Military Academy, Drennon Springs, Kentucky, but became involved in politics and was elected to the Kentucky House of Representatives in 1850, serving two terms.

In 1853, Green abandoned both medicine and politics, and entered the telegraph business. After a period of mutually destructive competition, the two rival telegraph lines between Louisville and New Orleans were consolidated and leased to several men, one of whom was Green. These lines were reorganized as the Southwestern Telegraph Co., with Green as president, and the company began to prosper. Green, however, envisioned a national network of telegraph lines and, pursuant to this idea, instigated the consolidation of six major lines, forming the North American Telegraph Co. in 1857. In 1866, a national consolidation was realized with the founding of Western Union. Green was vice-president of the company until 1878, then president until his death.

Green was a charter member of the American Institute of Electrical Engineers, having signed the "call" to found that organization in 1884.

He was elected as the Institute's first president and re-elected to a second term. He also served as a vice-president from 1886 to 1888.

Norvin Green died at his home in Louisville on 12 February 1893.



JOHN S. STONE  
4th PRESIDENT OF IRE (1915)  
(Native of Dover, Virginia)



**John Stone Stone**, son of Charles Pomeroy and Jeannie (nee Stone) Stone, was born in Dover, Virginia, on 24 September 1869. After attending the Columbia University School of Mines and Johns Hopkins University, he began his career in 1890 as an experimentalist in the American Bell Telephone Company laboratory in Boston. He left Bell after nine years and spent some time as special lecturer on electrical oscillations at the Massachusetts Institute of Technology. In 1902, he became director, vice-president and chief engineer of the newly incorporated Stone Telegraph & Telephone Co., which manufactured and leased wireless telegraph apparatus. He served as president and chief engineer of this firm from 1908-1910, then turned to consulting and acting as an expert witness in patent cases. He became associated with the American Telephone and Telegraph Company as

associate engineer at large of the research and development department in 1920 and remained in that position for fifteen years.

Stone made many contributions to the fields of telephony and radio telegraphy. While working at Bell, he invented the Stone common battery system and assisted in developing the carrier current system of transmission over wires and methods of uniformly loading telephone cables with inductance. He held several patents, including one for a system of loosely coupled, tuned circuits for radio transmission and reception (1902), the priority of which over Marconi's similar system was established by a U.S. Supreme Court decision after Stone's death. He was the author of several important technical papers, including "The Practical Aspects of the Propagation of High Frequency Waves Along Wires," for which he was awarded the Franklin Institute Edward Longstreth Medal in 1913.

He was instrumental in the founding in Boston of the Society of Wireless Telegraph Engineers (SWTE) in 1907 and served as its president until 1909. That organization originally provided a forum for the reading and discussion of technical papers for the staff of the Stone Telegraph & Telephone Co., but was then expanded to accommodate radio engineers in general. In 1912, SWTE merged with The Wireless Institute to form the Institute of Radio Engineers. Stone was a member of the board of directors of the IRE from 1912-1917, vice-president of the Institute in 1913 and 1914, and president in 1915. He was made a Fellow of the IRE in 1915 and received the Medal of Honor in 1923 "for distinguished service in radio communication."

John Stone died on 20 May 1943 in San Diego, California.

WILLIAM S. LEE  
43rd PRESIDENT OF AIEE (1930-31)  
(Native of South Carolina)

The development of the electric power industry in the southeastern part of the United States was the constant endeavor throughout the engineering and business career of William States Lee. Mr. Lee was one of the outstanding figures in the industry at the time of his death, March 24, 1934.

Mr. Lee was born in Lancaster, S.C., January 28, 1872. He received the degree of C.E. from The Citadel, the Military College of South Carolina, in 1894. He received the honorary degree of doctor of laws from this institution in 1932, and that of doctor of science from Davidson College, N.C. in 1929.

Following graduation, he was obliged to teach 2 years, in return for the free scholarship to The Citadel, which he had won in a competitive examination.

In 1897 he was appointed resident engineer at the Anderson (S.C.) Light and Power Company. In 1898 he became resident engineer of the Columbus (Ga.) Power Company, becoming chief engineer of this company in 1902. He next went to the Catawba Power Company, Charlotte, N.C., being appointed chief engineer in March 1903, and vice-president and chief engineer in October of that year. This company was a subsidiary of the Southern Power Company, and in 1905 he became chief engineer of the latter company. He later received the appointment of vice-president and chief engineer, which position he held for about 15 years. At the time of his death Mr. Lee was vice-president and chief engineer of the Duke Power Company, Charlotte, N.C., and president of W. S. Lee Engineering Corporation of New York and Charlotte.

Mr. Lee held a number of other offices, being president and chief engineer of the Piedmont and Northern Railway Company, vice-president and chief engineer and director of the Wateree Power Company, Western Carolina Power Company, and Catawba Power Company.

Mr. Lee was long associated with James B. Duke, and together they were active in the construction of many power systems and the development of hydroelectric resources in the south. Probably Mr. Lee's most notable achievement was the designing and building of the Duke Power Company system, consisting of some 32 hydroelectric stations and 7 steam electric stations, with a generating capacity of more than 1,000,000 kva. He also designed and supervised the building of the Duke-Price Power Company's Isle Maligne station on the Saguenay River, Quebec, Canada. He was consulting engineer for the Alcoa Power Company, and designed the Beauharnois Plant on the St. Lawrence River, near Montreal, the largest hydroelectric plant in the world at that time.

Mr. Lee gave freely of his time to the Institute, having been a manager 1911-14, and a director 1929-30, in addition to having been president. He was elected an AIEE Fellow in 1913, the first AIEE Fellow to be named from the Southeast. He served on 8 of the Institute committees and was its representative on several other bodies. He was particularly active in American Engineering Council, having been its president for the 2 years 1932-33. He also was a member of several other societies.



WILLIAM S. LEE  
43rd PRESIDENT OF AIEE (1930-31)



JOSEPH K. DILLARD  
14th PRESIDENT OF IEEE (1976)  
(Native of South Carolina)

Mr. Dillard was born in South Carolina in 1917. He received the B.S.E.E. degree from Georgia Institute of Technology and the M.S. degree from MIT. He was on the MIT Electrical Engineering staff before joining Westinghouse in 1950, where he worked in industrial power electronics, communications interference, and the earliest applications of analog and digital computers to transient analysis. When elected president, he was Manager of Advanced Systems Technology. In this capacity he was responsible for technical and economic investigations of power systems and technical assistance to Westinghouse divisions in the fields of process control, stress analysis, and the application of minicomputers. He has published some 60 technical papers. He is a member of the National Academy of Engineering, the National Society of Professional Engineers, and a registered Professional Engineer in Pennsylvania. He was also a member of the International Programme Committee of the World Energy Conference. Mr. Dillard is now retired.

IEEE Activities (M'50-SM'53-F'62) OFFICES: Board of Directors, 1970-77; President, 1976; Executive Vice President, 1975; Vice President - Technical Activities, 1972-73; Treasurer, 1974. COMMITTEES/BOARDS: Audit, 1974; Executive, 1972-77; Finance, 1972-77; Finance Advisory, Chairman, 1974; Founders Medal, 1971-72; Industrial Power Rectifiers, 1952-61, Secretary, 1953-55, Vice Chairman, 1955-57, Chairman, 1957-59; Industry Division, 1957-59; Intersociety Relations, Vice Chairman, 1977; Life Member Fund, 1974; Long Range Planning, 1977; Review Committee for Awards Board, Chairman, 1979; Standards, Liaison Rep., 1964-66; Systems Engineering, 1955-56; Technical Activities Board, 1970-73, Chairman, 1972-73; TAB OpCom, 1970-73, Chairman, 1972-73; Transmission and Distribution, 1953-68, Vice Chairman, 1964-66, Chairman, 1966-69. DISTRICTS: District 2, Prize Papers Committee, 1955-56. SECTIONS: Pittsburgh, Program Committee, 1952-56, Director, 1956-58, 1964-66. GROUPS/SOCIETIES: Power Engineering: Council, 1966-68, Power Apparatus and Systems Guest Editor, June 1966 Special Issue, Transactions Editorial Committee, 1966-68. CONFERENCES: Special Technical Conference on EHV Transmission, Chairman, 1965; Special Technical Conference on Underground Distribution, Advisor, 1967-68.



JOSEPH K. DILLARD  
14th PRESIDENT OF IEEE (1976)

### REGION 3 OFFICERS

The organization of Region 3 has become more complex over the years, but careful management has achieved a very effective team. There are now about 20 officers on the Executive Committee.

# IEEE REGION 3 OFFICERS

	1963	1964	1965
Region 3 Director	J.W.Davis	J. Weil	
Region Vice-Chairman	-	-	
Secretary/Treasurer	-	-	
Area 1 Chairman	-	-	
Virginia			
Area 2 Chairman	-	-	
North Carolina			
Area 3 Chairman	-	-	
Georgia (& South Carolina til '80)			
Area 4 Chairman	-	-	
Florida			
Area 5 Chairman	-	-	
Tennessee (& Kentucky til '82)			
Area 6 Chairman	-	-	
Alabama, Mississippi, Louisiana			
Area 7 Chairman	-	-	
South Carolina			
Area 8 Chairman	-	-	
Kentucky			
Student Activities Chairman	-	-	
Membership/Transfers Chairman	-	-	
Awards Chairman	B.V.Martin	-	
Meetings Chairman	-	-	
Professional Activities Chairman	-	-	
Member Services Chairman	-	-	
Education Chairman	-	-	
Region Student Representative	-	-	
Long Range Planning Committee	-	-	
Membership Development Chairman	-	-	
Nomination & Appointments Chairman	-	-	
Intersociety Legislative Advisory	-	-	
Committee Chairman			
Public Relations Chairman	-	-	
Guidance Chairman	-	-	

IEEE REGION 3 OFFICERS (Continued)

	1966	1967	1968	1969
Region 3 Director	R. G. Fellers		R. G. Elliott	
Region Vice-Chairman	-		-	
Secretary/Treasurer	L. P. Thompson, Jr.		W. L. Sullivan	
Area 1 Chairman	-		-	
Virginia				
Area 2 Chairman	-		-	
North Carolina				
Area 3 Chairman	-		-	R. S. Duggan
Georgia (& South Carolina til '80)				
Area 4 Chairman	-		-	
Florida				
Area 5 Chairman	-		-	
Tennessee (& Kentucky til '82)				
Area 6 Chairman	-		-	
Alabama, Mississippi, Louisiana				
Area 7 Chairman	-		-	
South Carolina				
Area 8 Chairman	-		-	
Kentucky				
Student Activities Chairman	-		-	
Membership/Transfers Chairman	-		-	
Awards Chairman	-		-	
Meetings Chairman	-		-	
Professional Activities Chairman	-		-	
Member Services Chairman	-		-	
Education Chairman	-		-	
Region Student Representative	-		-	
Long Range Planning Committee	-		-	
Membership Development Chairman	-		-	
Nomination & Appointments Chairman	-		-	
Intersociety Legislative Advisory	-		-	
Committee Chairman				
Public Relations Chairman	-		-	
Guidance Chairman	-		-	

# IEEE REGION 3 OFFICERS (Continued)

	1970	1971	1972	1973
Region 3 Director	S. Cambias, Jr.		G. F. Daussman	
Region Vice-Chairman	W. L. Sullivan		C. H. Weaver	
Secretary/Treasurer	E. Freitag		R. A. Trenkle	
Area 1 Chairman	H. S. Landes		C. R. Spitzer	
Virginia				
Area 2 Chairman	J. C. Stewart		R. H. Harris	
North Carolina				
Area 3 Chairman	R. S. Duggan, Jr.		D. T. Paris	
Georgia (& South Carolina til '80)				
Area 4 Chairman	J. Weil		J. Weil	
Florida				
Area 5 Chairman	C. H. Weaver		W. L. Carter	
Tennessee (& Kentucky til '82)				
Area 6 Chairman	D. Buckworth		O. P. McDuff	
Alabama, Mississippi, Louisiana				
Area 7 Chairman	-		-	
South Carolina				
Area 8 Chairman	-		-	
Kentucky				
Student Activities Chairman	P. J. Morgan		P. J. Morgan	
Membership/Transfers Chairman	-		J. E. Spencer	
Awards Chairman	-		H. P. Weber	
Meetings Chairman	-		W. E. Burt	
Professional Activities Chairman	-		-	
Member Services Chairman	-		W. C. Burnett	
Education Chairman	-		A. W. Revay, Jr.	
Region Student Representative	-		-	
Long Range Planning Committee	-		-	
Membership Development Chairman	-		-	
Nomination & Appointments Chairman	R. G. Elliott		R. G. Elliott	
Intersociety Legislative Advisory	-		-	
Committee Chairman				
Public Relations Chairman	-		T. T. McDugald	
Guidance Chairman	-		B. V. Martin	

IEEE REGION 3 OFFICERS (Continued)

	1974	1975	1976	1977
Region 3 Director	W..L. Sullivan		L. K. Wilson	
Region Vice-Chairman	C. R. Spitzer		R. H. Harris	
Secretary/Treasurer	T. T. McDugald		R. T. Nash	
Area 1 Chairman	G.R.Keesecker	M.H.Hopkins	M. H. Hopkins	
Virginia				
Area 2 Chairman	E. G. Craig		G. L. Finley	
North Carolina				
Area 3 Chairman	W. C. Burnett		A. V. Nelson	
Georgia (& South Carolina til '80)				
Area 4 Chairman	J. C. Pullara		J. M. Walter	
Florida				
Area 5 Chairman	L. K. Wilson		J. F. Pierce	
Tennessee (& Kentucky til '82)				
Area 6 Chairman	J. E. Spencer		G. E. Bell	
Alabama, Mississippi, Louisiana				
Area 7 Chairman	-		-	
South Carolina				
Area 8 Chairman	-		-	
Kentucky				
Student Activities Chairman	L. N. Back		L. N. Back	
Membership/Transfers Chairman	D.A.Robertson	D.C.McLaren	-	
Awards Chairman	B. V. Martin		P. J. Morgan	
Meetings Chairman	J. S. Heintzman		J. S. Heintzman	
Professional Activities Chairman	J. Weil		J. C. Pullara	
Member Services Chairman	R. H. Harris		-	
Education Chairman	-		-	W.E.Sayle, III
Region Student Representative	-		-	B.D.McCalley
Long Range Planning Committee	-		-	
Membership Development Chairman	-		D.C.McLaren	K.R.Thompson
Nomination & Appointments Chairman	G. F. Daussman		W. L. Sullivan	
Intersociety Legislative Advisory	-		-	
Committee Chairman				
Public Relations Chairman	-		-	
Guidance Chairman	-		-	

# IEEE REGION 3 OFFICERS (Continued)

	1978	1979	1980	1981
Region 3 Director	R. H. Harris		D. C. McLaren	
Region Vice-Chairman	A. V. Nelson		K. R. Thompson	
Secretary/Treasurer	J. J. Strother		A. L. Stoutenburg	
Area 1 Chairman	D. O. Ward		J.H.Lane	G.R.Keesecker
Virginia				
Area 2 Chairman	W. J. Bott		H. G. Koger	
North Carolina				
Area 3 Chairman	A. D. Page, Jr.		E. C. Burdette	
Georgia (& South Carolina til '80)				
Area 4 Chairman	R. J. Wojtasinski		V. B. Powers	
Florida				
Area 5 Chairman	C. W. Pender, Jr.		C.W.Pender,Jr.	E.C.Huebschmann
Tennessee (& Kentucky til '82)				
Area 6 Chairman	O. C. Landry		C. L. Rogers	
Alabama, Mississippi, Louisiana				
Area 7 Chairman	-		A.C.Merrell	R.M.Herron
South Carolina				
Area 8 Chairman	-			-
Kentucky				
Student Activities Chairman	L. N. Back		R. J. Coleman	
Membership/Transfers Chairman	-		-	
Awards Chairman	G. L. Finley		R. E. Theisen	
Meetings Chairman	J. S. Heintzman		J. S. Heintzman	
Professional Activities Chairman	J. I. Barron		R. J. Wojtasinski	
Member Services Chairman	-		-	
Education Chairman	J. M. Biedenbach		J. M. Biedenbach	
Region Student Representative	J. Ellis		C. L. Nunnally	
Long Range Planning Committee	W. L. Sullivan		W. L. Sullivan	
Membership Development Chairman	K.R.Thompson L.E.Johnson,Jr		L. E. Johnson, Jr.	
Nomination & Appointments Chairman	L. K. Wilson		R. H. Harris	
Intersociety Legislative Advisory	-		J. I. Barron	
Committee Chairman	-			
Public Relations Chairman	-		R. H. Tanner	
Guidance Chairman	-		-	



# IEEE REGION 3 OFFICERS (Continued)

	1982	1983	1984	1985
Region 3 Director	K. R. Thompson		R. S. Duggan, Jr.	
Region Vice-Chairman	R. S. Duggan, Jr.		G. F. Abbott	
Secretary/Treasurer	A. S. Urano		C. D. Bartlett	
Area 1 Chairman	G.R.Keesecker	J.D.Hendry	J. D. Hendry	
Virginia				
Area 2 Chairman	G. F. Abbott		R. L. Riddle	
North Carolina				
Area 3 Chairman	E. C. Burdette		J. C. Wiltse	
Georgia (& South Carolina til '80)				
Area 4 Chairman	D.E.Flinchbaugh	A.N.Greene	A. N. Greene	
Florida				
Area 5 Chairman	G. T. Province		E.C.Huebschmann	
Tennessee (& Kentucky til '82)				
Area 6 Chairman	C. L. Rogers		C. L. Rogers	
Alabama, Mississippi, Louisiana				
Area 7 Chairman	R.A.Mitchell	F.L.Cain	F. L. Cain	
South Carolina				
Area 8 Chairman	A. L. Shields		J. R. Cox	
Kentucky				
Student Activities Chairman	D. J. Dumin		L. D. Dornetto	
Membership/Transfers Chairman	-			
Awards Chairman	V. B. Powers		V. B. Powers	
Meetings Chairman	W. V. Albanes		R. J. Wojtasinski	
Professional Activities Chairman	V. Bodin		J. J. Miller	
Member Services Chairman	-		-	
Education Chairman	J. M. Biedenbach		J. M. Biedenbach	
Region Student Representative	D. A. Clayton		C.W.LaHay	
Long Range Planning Committee	R. H. Harris		W. L. Sullivan	
Membership Development Chairman	L. E. Johnson, Jr.		R. O. Claus	
Nomination & Appointments Chairman	D. C. McLaren		K. R. Thompson	
Intersociety Legislative Advisory	-		-	
Committee Chairman				
Public Relations Chairman	R. H. Tanner		R. H. Tanner	
Guidance Chairman	-		-	

### IEEE OFFICERS AND DIRECTORS FROM REGION 3

In addition to former presidents of the institute and directors of the region, numerous other national offices have been filled by volunteers from Region 3. A partial listing is included below:

S. Cambias, Jr.	V. Pres. 1973, Secy. 1974
E.E.David	Director 1967-1969
J.K.Dillard	V. Pres. 1972-1973, Treas. 1974
	Exec. V. Pres. 1975
I.N.Howell, Jr.	Director 1980-1983
F.A.Jenkins	Director 1982
G.P.Rodrigue	V. Pres. 1982-1983

Many others have been officers in the various IEEE societies, but records are not readily available to provide this information.

From the predecessor societies, several key officers were from Region 3:

B. V. Martin	AIEE V. Pres.
W. W. Oettinger	AIEE V. Pres.
W. J. Seeley	AIEE V. Pres., IRE V. Pres.

National Academy of Engineering Members from Region 3

John G. Anderson

Frederick P. Brooks, Jr.

Joseph K. Dillard

Robert R. Everett

James L. Flanagan

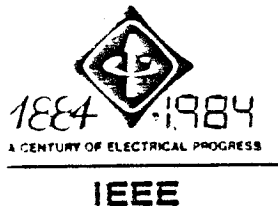
Paul E. Green, Jr.

W. Deming Lewis

Thomas L. Martin, Jr.

Joseph M. Pettit

John W. Simpson



VI

REGION 3

FELLOWS

# FELLOWS FROM REGION 3

(Note: This includes Fellows from AIEE, IRE, and IEEE. While it is incomplete, it is the best available listing. A Fellow is considered to be from Region 3 if he either was born, was educated, or was elected in Region 3).

Charles G. Adist	Jas. A. DeShong	Leland B. Jackson	M. David Prince
Edward W. Allen, Jr.	John H. DeWitt, Jr.	Frank A. Jenkins	Dalton H. Pritchard
James L. Allen	Joseph K. Dillard	Alva A. Johnson	Robert L. Pulley
Charles P. Almon, Jr.	Merle R. Donaldson	E. Calvin Johnson	Lawrence R. Quarles
John G. Anderson	Willy L. Doxey	Richard C. Johnson	Jas. A. Rawls
R. Cooper Bailey	Rupert Early	William Keister	Olan Richardson
T. F. Barton	H. Allen Ecker	Henry T. Killingsworth	Garvice H. Ridings
Max C. Batsel	Robert G. Elliott	M. R. Kimbrell	Glen P. Robinson, Jr.
Walter R. Beam	Rudolf Engelbrecht	Roy R. Krezdorn	Henry B. Robinson
Leo J. Berberich	John N. Entzminger, Jr.	F. W. Lachicotte	Robert W. Rochelle
Joseph M. Biedenbach	Joseph B. Epperson	W. S. Lee	George P. Rodrigue
E. Milton Boone	Louis W. Erath	P. E. Lehde	Harold A. Rosen
David W. Borst	William E. Evans	W. Deming Lewis	Charles W. Ross
Henry C. Bourne, Jr.	Robert R. Everett	William A. Lewis	Charles T. Rucker
Joseph A. Boyd	Rufus G. Fellers	Edwin W. Logan	Andrew P. Sage
John R. Boykin	James L. Flanagan	Maurice W. Long	Eugene C. Sakshang
Merwin M. Brandon	John M. Flanigen	William H. Louisell	Ronald W. Schafer
George R. Brewer	Harold L. Flowers	Jesse B. Lunsford	Morton I. Schwartz
Frederick P. Brooks, Jr.	Gene F. Franklin	Donnell D. MacCarthy	Derrill F. Shankle
R. Frank Brower	Jimmy Frazer	J. Ross MacDonald	Amandus H. Sharbaugh
Thos. E. Browne, Jr.	Jas. J. Gallagher	Ralph E. Marbury	Alexander N. Shealy
William R. Brownlee	George P. Gamble	Charles R. Marcum	R. Bruce Shipley
C. I. Burkholder	Maston L. Gardner	Daniel W. Martin	Ronald B. Shores
Charles A. Burruss, Jr.	Thos. S. Gaylord	Thos. L. Martin, Jr.	John W. Simpson
Harold E. Campbell	Finis E. Gentry	William G. Martin, III	Harry C. Simrall
John L. Cantwell	Ben S. Gilmer	John S. Mayo	Marion P. Smith
Gordon K. Carter	Kenneth W. Goff	George F. McClure	Merlin G. Smith
Madison Cawein	Thos. T. Goldsmith, Jr.	John L. McLucas	P. C. Smith
Fred Chambers	Thos. D. Gordy	Alan L. McWhorter	Sidney T. Smith
Joseph A. Chambers	Paul E. Green, Jr.	Henry E. Meadows, Jr.	Lester M. Spandorfer
Oaklee E. Charlton	Ludlow B. Hallman, Jr.	Jack L. Melchor	McBeth N. Sprouse
Robert C. Cheek	George S. Haralamp	M. Stephens Merritt	B. L. Stemmons
John H. Chiles, Jr.	W. K. Harding	O. J. Miller	John S. Stone
James M. Clayton, Jr.	George G. Harman	Robert M. Milton	G. Philip Stout
William D. Cockrell	John D. Harper	Luke H. Montgomery	Kendall L. Su
Lynwood A. Cosby	Roy A. Harris	Earle M. Morecock	Edgar R. Taylor, Jr.
William Q. Crichlow	Walter R. Harris	S. D. Moxley, Jr.	Edmund R. Taylor
Reid P. Crippen	Gordon R. Harrison	Josh. T. Nessmith, Jr.	Ralph E. Taylor
Lathan D. Cronin	Charles T. Hatcher	William L. Newmeyer	G. W. Thaxton
Jas. A. Cronvich	Thos. J. Higgins	L. C. Oakes	Leonard W. Thomas, Sr.
A. Carter Crymble	Luther W. Hill	H. W. Oetinger	Thos. E. Tice
A. Malcolm Curry	Linder C. Hobbs	H. George Oltman	Jas. C. Toler
Thomas F. Curry	Martial A. Honnell	J. W. Owens	George R. Town
Benjamin J. Dasher	Arthur M. Hopkin	Demetrius T. Paris	Charles H. Townes
E. E. David, Jr.	Hazen E. House	Harold J. Peake	Charles R. Vail
John W. Davis	Irvin N. Howell, Jr.	Jos. R. Perkins	Virginnius N. Vaughn, Jr.
L. Berkley Davis	Russell H. Hughes	Jos. M. Pettit	Jas. D. Wallace
Charles E. Dean	Harry D. Huskey	Jas. D. M. Phelps	Mead Warren, Jr.
Bernard C. DeLoach, Jr.	Dorman D. Israel	Harvey F. Pierce	Charles H. Weaver
Wallace A. Depp	Henry F. Ivey	John E. Pippin	Vernon I. Weihe

Joseph Weil  
Lawrence R. Whicker  
H. Baron Whitaker  
Daniel L. Whitehead  
Carl H. Williams  
Jas. C. Wiltse, Jr.  
Herman B. Wolf  
James Q. Wray, Jr.  
Chas. J. Wylie  
Eugene S. Zobel

Fellows elected beginning 1984

H. Craig Casey  
Gerald Cook  
Wallace H. Coulter  
Julian W. Dees  
Oscar N. Garcia  
Rafael C. Gonzalez  
Robert M. Haralick  
James Chen Hung  
John E. Keigler  
Bernard L. Lewis



**IEEE**

VII

REGION 3

AWARDS OF NOTE

REGION 3 AWARDS

<u>DATE</u>	<u>RECIPIENT</u>	<u>AWARD</u>	<u>SECTION</u>	<u>PLACE PRESENTED</u>
1971	John B. Pippin William R. Brownlee	Outstanding Engineer Outstanding Engineer	Atlanta Alabama	Charlottesville, VA Charlottesville, VA
1972	Rufus G. Fellers	Outstanding Engineer	Columbia	Knoxville, TN
1973	Gerald G. Gould	Outstanding Engineer	Panama City	Louisville, KY
1974	Samuel R. Hart George H. Pierce	Outstanding Engineer Outstanding Service	Alabama New Orleans	Orlando, FL Orlando, FL
1975	James C. Wiltse, Jr. John S. Heintzman	Outstanding Engineer Outstanding Service	Orlando Louisville	Charlotte, NC Charlotte, NC
1976	Robert S. Duggan, Jr. Ben V. Martin	Outstanding Engineer Outstanding Service	Atlanta Charlotte	Clemson, SC Clemson, SC
1977	T. Lamont Wilson William C. Burnett	Outstanding Service Outstanding Service	Louisville Atlanta	Williamsburg, VA Williamsburg, VA
1978	Glen P. Robinson, Jr. Wilbert L. Sullivan	Outstanding Engineer Outstanding Service	Atlanta Atlanta	Atlanta, GA Atlanta, GA
1979	Morton I. Schwartz Larry K. Wilson	Outstanding Engineer Outstanding Service	Atlanta Nashville	Roanoke, VA Roanoke, VA
1980	Robert O. Usry Robert S. Duggan, Jr.	Outstanding Engineer Outstanding Service	Alabama Atlanta	Nashville, TN Nashville, TN
1981	Jerry Vandergrift Roy H. Harris	Outstanding Engineer Outstanding Service	Alabama NC Council	Huntsville, AL Huntsville, AL
1982	Jack Davey Joseph M. Biedenbach	Outstanding Engineer Outstanding Service	New Orleans Columbia	Destin, FL Destin, FL
1983	Ronald W. Schafer Russell E. Theisen	Outstanding Engineer Outstanding Service	Atlanta Orlando	Orlando, FL Orlando, FL



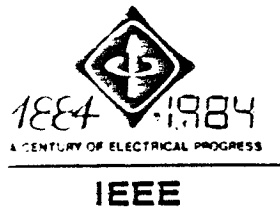
### Region 3 Exemplary Section Award

In 1983 Region 3 Director Reed Thompson instituted a new award in the region, designed to recognize significant achievements by sections within the region.

During 1983 the Exemplary Section Award was presented to the Orlando, Alabama, Virginia Mountain, and Atlanta Sections.

### Region 3 Outstanding Educator Award

In 1984 the Region 3 Awards Program is being expanded and will also recognize the outstanding educator from Region 3.



VIII  
REGION 3  
CONFERENCES

## CONFERENCES

Following the merger of AIEE and IRE into IEEE, an annual regional meeting evolved, eventually becoming known as Southeastcon. Not only for the Region 3 engineer members, the regional meeting has traditionally had a special student flavor as well.

Starting in 1981, a much larger conference known as Southcon began to be held annually, alternating between Atlanta and Orlando. With hundreds of exhibits, Southcon has had a particular attraction for the working engineer, offering the latest in hardware displays together with special short courses, and dozens of sessions in the technical program.

Key statistics on Southeastcon and Southcon are subsequently included in this section.

The Southeast has also grown through the years, attracting a wide variety of electrical and electronics conferences. In addition to Southeastcon and Southcon, many other conferences which have been held in Region 3 are also tabulated in this section.

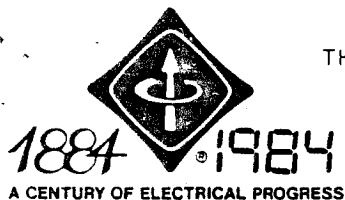
SOUTHEASTCON (REGION 3 ANNUAL MEETING)

1965	Raleigh, N. C.	
1966	Atlanta, Ga.	(4/10-13)
1967	Jackson Miss.	
1968 (Spring)	New Orleans, La. (a telephone strike decimated the conference)	
(Fall)	Cocoa, Fla. (this one made up for the spring disaster)	
1969 (Spring)	Raleigh, N. C. (students only)	
(Fall)	Huntsville, Ala.	
1970	Gainesville, Fla. (students only)	
1971	Charlottesville, Va.	(4/26-28)
1972	Knoxville, Tenn.	
1973	Louisville, Ky.	(4/30-5/2)
1974	Orlando, Fla.	(4/29-5/1)
1975	Charlotte, N. C.	(4/6-9)
1976	Clemson, S. C.	(4/5-7)
1977	Williamsburg, Va.	(4/4-6)
1978	Atlanta, Ga.	(4/10-12)
1979	Roanoke, Va.	(4/1-4)
1980	Nashville, Tenn.	(4/13-16)
1981	Huntsville, Ala.	
1982	Destin, Fla.	(4/5-7)
1983	Orlando, Fla.	(4/10-14)
1984	Louisville, Ky.	(4/8-11)
1985	Raleigh, N.C.	
1986	Richmond, Va.	

Southeastcon Committees

1976 - 1984

This section includes brochures from some of the past Southeastcon meetings, listing some of the principal committee chairmen who made the conferences possible.



THE INSTITUTE OF  
ELECTRICAL AND  
ELECTRONICS  
ENGINEERS, INC.

SOUTHEASTCON '84  
THE GALT HOUSE  
LOUISVILLE, KENTUCKY  
APRIL 8-11, 1984



**SOUTHEASTCON '84**  
Executive Committee

**GENERAL CHAIRMAN**

Robert T. Toomes  
American Bell-AIS  
Suite 300  
9300 Shelbyville Rd.  
Louisville, KY 40222  
(502) 429-1108 (b) (502) 245-1105 (r)

**VICE CHAIRMAN**

John S. Heintzman  
3322 Lexington Rd.  
Louisville, KY 40206  
(502) 895-3076 (r)

**EXHIBITS CHAIRMAN**

William C. Gibson  
Louisville Gas & Electric  
P.O. Box 32010  
Louisville, KY 40232  
(502) 566-4097 (b) (502) 447-1312 (r)

**FINANCE**

Richard P. Bailey  
American Air Filter  
1930 Bishops Lane  
Louisville, KY 40218  
(502) 588-9418 (b)

**LOCAL ARRANGEMENTS**

Anthony L. Shields  
General Electric Co.  
2300 Meadow Dr.  
Louisville, KY 40218  
P.O. Box 18246  
(502) 452-3134 (b) (502) 458-8163 (r)

**PUBLICATIONS**

Edward J. Miller  
South Central Bell  
534 Armory Place  
P.O. Box 32410  
Louisville, KY 40232  
(502) 582-8855 (b) (812) 945-7529 (r)

**PUBLICITY**

J. Rodney Cox  
Electrical Engineering Department  
University of Louisville  
Louisville, KY 40292  
(502) 588-6279 (b) (502) 895-6743 (r)

**TECHNICAL PROGRAM**

Joseph D. Cole  
Electrical Engineering Department  
University of Louisville  
Louisville, Kentucky 40292  
(502) 588-6313 (b) (502) 897-6828 (r)

**STUDENT BRANCH COUNSELOR**

Peter Aronhime  
Electrical Engineering Department  
University of Louisville  
Louisville, KY 40292  
(502) 588-6312 (b)

# The GALT HOUSE



## THE GALT HOUSE – Louisville, Kentucky

The Galt House is Kentucky's largest hotel, boasting of over 700 luxurious guest rooms, including 40 suites. We are located adjacent to the great Ohio River and every room lends itself to a river view. Our downtown location is within easy walking distance to excellent restaurants, shopping, museums and night entertainment. Louisville is known for the great Churchill Downs, home of the Kentucky Derby, and the timelessly, beautiful Belle of Louisville right at our doorstep. When it comes to dining, The Galt House can answer your every whim. From the elegant Flagship Room, perched on top of our tower, to afford you a breath-taking view of the river. . . to one of our goodtime munching and sipping places, like the English Tavern or the D'Marie Lounge. We offer a breakfast buffet in the River Grill and a luncheon buffet, Monday through Friday in the Fountain Room Restaurant. The Galt House offers free parking in our enclosed 1600 car garage, free of charge to all overnight guests. If you are driving, we are located at the intersection of three (3) major interstates, I-64, I-65, and I-71. We are only twelve (12) minutes from Standiford Field Airport for those who prefer to fly. Within our facility, we have a beauty parlor, barber shop, and a village of specialty shops. After all, we're The Galt House . . . and once you've experienced southern hospitality, our style . . . you'll never want anything less.

# Galt House

FOURTH AND RIVER  
LOUISVILLE, KENTUCKY  
40202  
PHONE: 502 - 589-5200

# IEEE SOUTHEASTCON '83

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*Martin Marietta Aerospace*

### TECHNICAL PROGRAM CHAIRMAN

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*University of Central Florida*

### EXHIBITS CHAIRMAN

George F. McClure  
*Martin Marietta Aerospace*

### FINANCE CHAIRMAN

Joseph L. Massett  
*Martin Marietta Aerospace*

### LOCAL ARRANGEMENTS CO-CHAIRMEN

Dr. Fred Simons, Jr.  
*University of Central Florida*

Robert Martin  
*University of Central Florida*

### REGISTRATION CHAIRMAN

Dr. Gerry C. White  
*Naval Training Equipment Center*

### PUBLICITY & PUBLICATIONS CHAIRMAN

T. Ed Ellis  
*Stromberg Carlson*

### STUDENT CONFERENCE CHAIRMEN

Dr. Benjamin W. Patz  
*University of Central Florida*

Dr. Murali Varanasi  
*University of South Florida Lib.630*

### REGION 3 REPRESENTATIVE

Vernon B. Powers  
*Sperry Gyroscope*

### REGIONAL ADVISOR

David C. McLaren  
*General Telephone Co. of Florida*

### FLORIDA COUNCIL REPRESENTATIVE

Dr. David Flinchbaugh  
*McDonald Douglas Corp.*

### ADMINISTRATIVE ADVISOR

Mr. Don Mendorf  
*United Technologies*

# SOUTHEASTCON '82

## Steering Committee

### GENERAL CHAIRMAN

Carolyn C. Schauble  
*Eglin Graduate Center*  
*University of Florida*  
(904) 882-5614

### TECHNICAL PROGRAM

Alfred E. Bills  
*The Analytic Sciences Corp.*  
(904) 863-1193

### EXHIBITS

2Lt. Lawrence E. Darbonne  
*US Air Force Armament Division*  
(904) 882-2201

### FINANCE

Lake Hamrick  
*Westinghouse Electric Corp.*  
(904) 243-7181

### PUBLICATIONS

Steven F. Butler  
*US Air Force Armament Division*  
(904) 882-2472

### LOCAL ARRANGEMENTS

Harvey D. Lathan, Jr.  
*US Air Force Armament Division*  
(904) 862-6550

### REGISTRATION

Darlene Wright  
*Westinghouse Electric Corp.*  
(904) 243-7181

### STUDENT ADVISOR

Dr. Leon W. Couch, II  
*University of Florida*  
(904) 392-4931

### STUDENT CHAIRMAN

Gary A. Hoffman  
*University of Florida*  
(904) 392-0949

### FORT WALTON SECTION

Dr. Duane E. Bowyer  
*Systems Control Technology*  
(904) 862-5998

### EGLIN LIAISON

Dr. James Jones  
*US Air Force Armament Division*  
(904) 882-2961



# **SOUTHEASTCON '81 STEERING COMMITTEE**

## **GENERAL CHAIRMAN**

Willy Albanes  
US Army Missile Command  
(205) 876-6558



## **TECHNICAL PROGRAM CHAIRMAN**

Dr. Naim A. Kheir  
University of Alabama in Huntsville  
(205) 895-6380



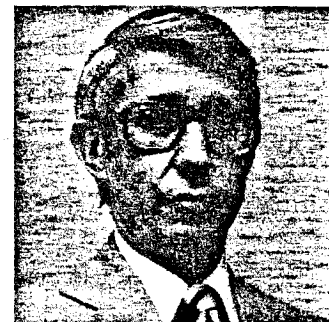
## **EXHIBITS CHAIRMAN**

Dr. Klaus D. Dannenburg  
Computer Sciences Corp.  
(205) 837-7200



## **REGISTRATION CHAIRMAN**

John B. Meadows  
US Army Missile Command  
(205) 876-1313



## **LOCAL ARRANGEMENTS CHAIRMAN**

Ray Zazulak  
McDonnell Douglas Corp.  
(205) 453-1960



## **PUBLICATIONS CHAIRMAN**

Dr. Chris Kulas  
US Army Missile Command  
(205) 876-5924



## **FINANCIAL CHAIRMAN**

Buddy Bishop  
US Army Missile Command  
(205) 876-4385



**PUBLICITY CHAIRMAN**

Robert Trenkle  
Huntsville Civil Defense  
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Southcon was a joint endeavor between IEEE and the Electronics Representatives Association (ERA). The IEEE sponsoring elements included Region 3, the Atlanta Section, and the Florida Council. The ERA sponsors included the Dixie, Sunshine, and Piedmont chapters. The show alternates between Atlanta and Orlando.

Planning began in 1977 under the leadership of Dr. Joseph M. Pettit, the president of Georgia Tech. The organizing committee met frequently as planning progressed. Electronic Conventions, Incorporated, which had played a key role in the success of Wescon and Electro, was formally engaged to conduct Southcon under the direction of the Southcon board.

The first Southcon was held in Atlanta at the World Congress Center, 13-15 January 1981. Almost 10,000 attended, making it the largest such convention/exhibition ever held in the Region.

The second Southcon was held in Orlando 23-25 March 1982, but limited facilities required spreading activities among three widely separated hotels. In spite of logistic problems presented, the attendance exceeded that of Atlanta, reaching almost 11,000.

The third Southcon was again held in Atlanta, 18-20 January 1983, and the attendance exceeded again the previous records -- in spite of a devastating ice storm on the third day which almost immobilized Atlanta. The health of Southcon had thus been forcefully demonstrated.

Southcon-84, being held 17-19 January 1984 in Orlando, is the first significant IEEE conference to be held during the Centennial Year. Special activities and films are planned as a part of the Centennial Celebration.



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OTHER SIGNIFICANT ELECTRONICS CONFERENCES HELD IN THE SOUTHEAST

1924	AIEE Spring Convention, Birmingham, Alabama	(4/7-11)
1928	AIEE District 4 Conference on Student Activities and Convention, Georgia Tech, Atlanta	(3/30-31) (10/23)
1929	North Carolina AIEE General Meeting, Charlotte	( June )
1934	AIEE Annual Convention, Hot Springs, Virginia	
1935	AIEE District 4 Student Conference, Blacksburg, Virginia	(4/11-13)
1936	AIEE District 4 Student Conference, Clemson, South Carolina	
1940	AIEE District 4 Student Conference, State College, Miss.	(4/11-13)
1946	AIEE Southern District Meeting, Asheville, North Carolina	(5/14-16)
1947	IRE Broadcast Engineers Conference, Atlanta, Ga.	(4/14-18)
	AIEE District 4 Student Conference, Lexington, Kentucky	(April)
1950	AIEE District 4 Student Conference, Atlanta, Ga.	(April)
1954	1st IRE National Conference on Instrumentation, Atlanta, Ga.	
1956	IRE National Conference on Instrumentation	
1957	AIEE District 4 Student Conference, Jackson, Mississippi	
1958	AIEE District 4 Student Conference, Durham, North Carolina	
1961	AIEE District 4 Student Conference, Richmond, Virginia	
1962	AIEE District 4 Student Conference, Gainesville, Florida	
1967	Winter Power Meeting, New Orleans, Louisiana	
1970	Southeastern Symposium on System Theory, Gainesville, Florida	(3/16-17)
	Int'l Symposium on Very Long Baseline Interferometry, Charlottesville, Virginia	(4/13-15)
	Carnahan Conference on Electronic Crime Countermeasures, Lexington, Kentucky	(4/16-18)

	Seventh Space Conference, Cocoa Beach, Florida	(4/22-24)
	Southeastern Textile Ind'y Tech. Conference, Atlanta	(5/14-15)
	Joint Automatic Control Conference, Atlanta	(6/24-26)
	Int'l Conf. on Eng'g in the Ocean Environment, Panama City, Florida	(9/21-24)
	Symp. on Entry Plasma Sheath and EM Effects, Hampton, Virginia	(10/13-15)
	Thermionic Energy Conversion Specialists Conference, Miami Beach	(10/26-29)
	North Carolina Affiliation Symp., Winston Salem, NC	(11/4-3)
	Symp. on Man Machine Sys., Winter Park, Florida	(11/12-13)
	Magnetism & Magnetic Materials Conference, Hollywood Beach, Florida	(11/17-20)
	Int'l Symp. on Circuit Theory, Atlanta	(12/14-16)
1971	ACM Symp. on Data Structures in Programming Languages, Gainesville, Florida	(2/25-26)
	3rd Annual Southeastern Symposium on System Theory, Atlanta	(4/5-6)
	First Frontiers in Education Conference, Atlanta	(4/13-15)
	Pulp & Paper Ind'y Tech. Conference, Savannah	(4/21-23)
	Middle Atlantic States Textile Ind'y Tech. Conference, Charlotte	(5/6-7)
	Petroleum & Chemical Ind'y Tech. Conference, Atlanta	(9/12-15)
	Decision & Control Conference, Miami Beach	(12/15-17)
1972	Seventh Annual Conference on Use of Digital Computers in Process Control, Baton Rouge	(2/9-11)
	Joint Railroad Tech. Conference, Jacksonville, Florida	(3/14-15)
	Southeastern Symp. on System Theory, Lexington, Kentucky	(4/3-4)
	Carnahan Conference on Electronic Prosthetics, Lexington, Kentucky	(9/21-22)
	Conference on Eng'g in Medicine & Biology, Bal Harbor, Florida	(10/1-5)
	Joint Eng'g Management Conference, Atlanta	(10/29-31)
	Nuclear Science Symp., Miami Beach	(12/6-8)
	G-AP International Symp. & Fall URSI Mtg., Williamsburg, Virginia	(12/11-15)

	Conference in Decision & Control, New Orleans	(12/13-15)
	Int'l Symp. on Computer & Info. Science, Miami Beach	(12/14-16)
1973	3rd Annual Environmental Eng'g & Science Conference, Louisville, Kentucky	(3/12-13)
	Southeastern Symp. on System Theory, Raleigh-Durham, North Carolina	(3/22-23)
	Carnahan Conference on Electronic Crime Countermeasures, Lexington, Kentucky	(4/25-27)
	Cement Ind'y Tech. Conference, Miami	(5/1-3)
	Pulp & Paper Ind'y Tech. Conference, Jacksonville, Florida	(5/1-4)
	Textile Ind'y Tech. Conference, Charlotte, North Carolina	(5/2-4)
	Ind'l & Comm'l Power Sys. Conference, Atlanta	(5/13-17)
	Joint Power Generation Conference, New Orleans	(9/16-20)
	Carnahan Conference on Electronic Prosthetics, Lexington, Kentucky	((9/19-21)
	Joint Eng'g Mgmt Conference, St. Petersburg, Florida	(10/25-26)
	3rd Data Communications Symp., Tampa, Florida	(11/13-15)
	National Telecommunications Conference, Atlanta	(11/26-28)
1974	Integrated Optics, New Orleans	(1/21-24)
	Seventh Annual Simulation Symp., Tampa	(3/13-15)
	Hydrogen Economy Miami Energy Conference, Miami Beach	(3/18-20)
	Eng'g Aspects of Magneto hydro dynamics, Tullahoma, Tennessee	(4/8-10)
	13th Annual Instrumentation Exhibit & Tech. Exchange, Huntsville, Alabama	(4/17-18)
	9th Annual Assn. for Advancement of Medical Instrumentation, New Orleans	(4/18-20)
	Int'l Conference on Plasma Sciences, Knoxville, Tennessee	(5/15-17)
	Int'l Conference on Submillimeter Waves & Appl'ns, Atlanta	(6/5-7)
	G-AP Int'l Symposium, Atlanta	(6/10-12)
	USNC/URSI Meeting, Atlanta	(6/11-13)

	G-MTT Int'l Microwave Symp., Atlanta	(6/12-14)
	Radome Conference, Atlanta	(6/14)
	Joint Power Generation Tech. Conference, Miami Beach	(9/15-19)
	15th Annual Symp. on Switching & Automata, New Orleans	(10/14-16)
	4th Int'l Semiconductor Laser Conference, Atlanta	(11/18-20)
	IEEE Specialists in Electro Luminescent Diodes, Atlanta	(11/20-21)
1975	Hydrogen Energy Fundamentals, Coral Gables, Florida	(3/3-5)
	Southeastern Symp. on Systems Theory, Auburn, Alabama	(3/20-21)
	Carnahan Conference on Electronic Crime Countermeasures, Lexington, Kentucky	(5/7-9)
	Textile Ind'y Tech. Conference, Charlotte, NC	(5/7-9)
	Power Ind'y Computer Applications, New Orleans	(6/1-4)
	Eng'g in Medicine & Biology Conference, New Orleans	(9/20-24)
	Ind'y Applications Soc. Annual Mtg., Atlanta	(9/28-10/2)
	Frontiers in Education Int'l Conference, Atlanta	(10/20-22)
1976	Simulation Symposium, Tampa	(3/17-19)
	11th Annual AAMI Meeting & Exhibit, Atlanta	(3/21-25)
	Southeastern Symp. on System Theory, Knoxville, Tennessee	(4/26-27)
	Textile Ind'y Tech. Conference, Atlanta	(5/6-7)
	Microprogramming Conference, New Orleans	(9/27-29)
	Nuclear Science - Scintillation & Semiconductor Counter - Nuclear Power Symp., New Orleans	(10/20-22)
	Photovoltaic Specialists Conference, Baton Rouge, La	(11/15-18)
1977	Optical Fiber Transmission, Williamsburg, Va	(2/22-24)
	Southeastern Symp. on System Theory, Charlotte	(3/7-8)
	Vehicular Tech'y, New Orleans	(3/16-18)
	Simulation Symposium, Tampa	(3/17-19)
	Semiconductor Power Converter Int'l Conference, Orlando	(3/28-31)

	Carnahan Conference on Crime Countermeasures	(4/6-8)
	Textile Ind'y Tech. Conference, Charlotte	(5/5-6)
	Multivalued Logic, Charlotte	(5/24-27)
	Design Automation Conference, New Orleans	(6/20-22)
	Int'l Conference on Nuclear Sys. Reliability, Knoxville, Tenn	(6/20-24)
	Eng'g Probs. of Fusion Research, Oak Ridge	(10/15-28)
1978	4th Joint College Workshop in Computer Science & Eng'g, Orlando	(2/2-3)
	5th Ocean Thermal Energy Conversion Conference, Miami Beach	(2/20-22)
	Southeastern Symp. on Sys. Theory, State College, Miss.	(3/13-14)
	Simulation Symposium, Tampa	(3/15-17)
	Subscriber Loops & Services Int'l Symp., Atlanta	(3/20-24)
	Textile Ind'y Tech. Conference, Atlanta	(4/20-21)
	Int'l Symp. on EMC, Atlanta	(6/20-22)
	Joint Power Generation Tech'y Conference, Charlotte	(9/10-13)
	Eng'g in Medicine & Biology, Atlanta	(10/21-25)
	Frontiers in Education, Lake Buena Vista, Florida	(10/23-25)
	National Telecommunications Conference, Birmingham	(12/4-6)
	Winter Simulation Conference, Miami Beach	(12/4-6)
1979	Optical Data Display Processing & Storage Symp., Orlando	(1/23-26)
	Symp. on Applied Vacuum Science & Tech'y, Tampa	(2/12-14)
	Simulation Symposium, Tampa	(3/14-16)
	Florida Eclectic, Melbourne, Florida	(3/22-23)
	Transmission & Distribution Conference & Exposition, Atlanta	(4/1-6)
	Ultrasonics Symposium, New Orleans	(9/26-27)
	1st Int'l Conference on Distributed Computing, Huntsville, Alabama	(10/2-5)
	Joint Power Generation Conference, Charlotte	(10/7-11)
	4th Int'l Conference on Infrared & Millimeter Waves, Miami Beach	(12/10-15)
	2nd Int'l Conference on Alternative Energy Sources, Miami Beach	(12/10-13)

	18th IEEE Conference on Decision & Control, Ft. Lauderdale, Florida	(12/12-14)
1980	2nd Int'l Conference on Magnetic Fluids, Gainesville, Florida	(3/24-27)
	Int'l Conference on Heterodyne Systems & Technology, Williamsburg, Virginia	(3/25-27)
	Annual Textile Industry Technical Conference, Atlanta	(5/7-8)
	1980 Carnahan Conference on Crime Countermeasures, Lexington, Kentucky	(5/14-16)
	1980 Power Electronics Specialists Conference, Atlanta	(6/17-19)
	Third World Energy Eng'g Congress, Atlanta	(10/14-16)
	3rd Miami Int'l Conference on Alternative Energy Sources, Miami Beach	(12/15-18)
1981	'80s-Decade of the Sensor, Atlanta	(1/16-17)
	8th Annual Conference on Physics of Compound Semiconductor Interfaces, Williamsburg, Virginia	(1/27-29)
	Power Eng'g Society Winter Meeting, Atlanta	(2/1-6)
	IEEE Int'l Conference on Acoustics, Speech, & Signal Proc'g, Atlanta	(3/30-4/1)
	Reliability Physics Symp., Orlando	(4/7-9)
	Rural Electric Power Conference, Atlanta	(4/26-28)
	Joint Railroad Conference, Atlanta	(4/28-30)
	Textile Industry Conference, Charlotte	(5/5-7)
	Pulp & Paper Technical Conference, Mobile, Alabama	(5/5-8)
	31st Electronic Components Conference, Atlanta	(5/11-13)
	15th IEEE Photovoltaic Specialists Conference, Orlando	(5/11-15)
	Carnahan Conference on Crime Countermeasures, Lexington, Kentucky	(5/13-15)
	University/Gov't/Industry Microelectronics Symp., Starkville, Miss	(5/25-27)
	Computerized Data Acq. in Particle & Nuclear Physics, Oak Ridge, Tennessee	(5/28-30)
	Intersociety Energy Conversion Eng'g Conference, Atlanta	(8/16-21)

	Automatic Support Sys. for Adv. Maintainability--Autotestcon,	(10/19-21)
	Orlando	
	26th Annual No. Carolina Symp. & Exhibit, Raleigh	(11/9-10)
1982	Communication Networks 82, Atlanta	(1/11-15)
	2nd Conference on Current Measurement, Hilton Head, South Carolina	(1/19-21)
	Annual Simulation Symposium, Tampa	(3/17-19)
	2nd Annual Robotics Conference, Huntsville, Alabama	(4/27-29)
	Nineteenth Space Congress, Cocoa Beach, Florida	(4/28-30)
	Textile Industry Technical Conference, Greenville, South Carolina	(5/5-7)
	Asso. of Educational Data Sys. Convention, Orlando	(5/10-14)
	Carnahan Conference on Security Tech'y, Lexington, Kentucky	(5/12-14)
	International Semiconductor Power Conv. Conf., Orlando	(5/24-27)
	Large Scale Systems Symposium, Virginia Beach, Virginia	(10/11-13)
	Interactive Computing & EE Education, Charlottesville	(10/25-28)
	Conference on Distributed Computing, Hollywood, Florida	(10/17-18)
	Int'l Symp. on Discharge & Elect. Insulat'n, Columbia	(10/25-28)
1983	Reliability & Maintainability Symposium, Orlando	(1/25-27)
	35th Annual College/Industry Education Conference, Lake Buena Vista, FL	(2/2-4)
	Optical Fiber Communication -- OFC 83, New Orleans	(2/28-3/1)
	Environmental Qualification Seminar, Atlanta	(3/8-10)
	Lithium Battery Technology & Application Seminar,	(3/9-11)
	Boca Raton, Florida	
	16th Annual Simulation Symposium, Tampa	(3/16-18)
	2nd Annual Florida Power Institute, Gainesville, Florida	(3/21-25)
	Symp. on Computer Systems Organization, New Orleans	(3/29-31)
	Tutorial Week East, Orlando	(4/4-8)
	Application of Optical Instrumentation in Medicine, Atlanta	(4/17-20)
	Satcom '83, Orlando	(4/25-27)
	Workshop on Software Eng'g Tech'y Transfer, Miami Beach	(4/25-27)
	Textile Industry Technical Conference, Greenville, South Carolina	(5/3-5)
	Robotics 83, Huntsville, Alabama	(5/10-12)
	Pulp & Paper Industry Technical Conference, New Orleans	(5/10-13)



	Conference on Crime Countermeasures & Security, Lexington, Kentucky	(5/11-13)
	Electronics Components Conference, Orlando	(5/16-18)
	3rd Int'l Conf on Live Line Maintenance, Atlanta	(6/6-9)
	26th Annual Power Instrumentation Symposium, St. Petersburg, Florida	(5/16-18)
	Design Automation Conference, Miami	(6/26-29)
	Nuclear & Space Radiation Effects Conf., Gatlinburg, Tenn.	(7/18-21)
	Intersociety Energy Conversion Eng'g Conference, Orlando	(8/21-26)
	Man-Machine Systems Symposium, Norfolk	(10/10-14)
	Symp. on Reliability of Distributed Software & Database Sys., Clearwater Beach, Florida	(10/17-19)
	Conference on Professional Communications, Atlanta	(10/19-21)
	Computers in Aerospace, Orlando	(10/24 - 26)
	Ultrasonics Symposium, Atlanta	(10/31-11/2)
	ASSP Spectrum Estimation Workshop, Tampa	(11/10-11)
	Fastener Symposium, Atlanta	(11/15-18)
	1983 Semiconductor Interface Specialists Conference, Ft. Lauderdale, Florida	(12/1-3)
	8th Int'l Conference on Infrared & Millimeter Waves, Miami Beach	(12/12-17)
1984	Mini Micro Southeast, Orlando	(1/17-19)
	Optical Fiber Communication -- OFC 84, New Orleans	(1/23-25)
	Built-In Self-Test Workshop, Charleston, S.C.	(2/28 - 3/1)
	First Radar Conference, Atlanta	(3/13-14)
	17th Annual Simulation Symposium, Tampa	(3/14-16)
	7th Int'l Conference on Software Engineering, Orlando	(3/25-30)
	Ind'l & Comm'l Power Sys. Conference, Atlanta	(5/7-10)
	34th Electronic Components Conference, New Orleans	(5/13-16)
	Int'l Conference on Lightning & Static Electricity, Orlando	( 6/- )
	Fault Tolerant Computing Symposium, Orlando	(6/19-21)
	1st IEEE Computer Soc. Conf. on Office Automation, New Orleans	(9/5 - 7)
	Nuclear Science Symposium, Orlando	(10/31-11/2)
	Nuclear Power Systems Symposium, Orlando	(10/31-11/2)
	Int'l Telecommunications Energy Conference, New Orleans	(11/11-14)
	Global Telecommunications Conference, Atlanta	(11/25-29)

# Broadcast Engineers Conference

ATLANTA, GEORGIA, APRIL 14-18, 1947

The Broadcast Engineers Conference, sponsored jointly by the Georgia School of Technology, the Atlanta Section of The Institute of Radio Engineers, and the Georgia Association of Broadcasters, was held at the Biltmore Hotel, with exhibits in the Naval Armory on the Georgia Tech campus, for the five-day period from April 14 to 18 inclusive. This conference, the first of its kind to be held in the South, was the direct result of discussions with Dr. W. L. Everitt during his visit to the Atlanta Section in 1945.

Over 150 persons registered for the technical sessions, in addition to many graduate students, instructors, and research personnel from Georgia Tech. Colonel Blake R. Van Leer, president of the Georgia School of Technology, welcomed the conference at the opening session.

Features of the exhibits were frequency-modulation transmitters and antennas, speech input equipment, limiting amplifiers, and recording equipment and supplies. This was the first opportunity for most of the 1000 registered visitors to the exhibits to see postwar radio broadcasting equipment.

A total of twenty-four technical papers in the field of radio broadcasting were presented. Many of these papers were presented for the first time at the conference. The closing banquet was high-lighted by a talk by Lewis F. Gordon entitled, "Beyond All Else—People," and by the presentation of certificates by Colonel Van Leer.

The success of the conference was due

largely to the members of the Atlanta Section of The Institute of Radio Engineers and its executive committee: P. H. Herndon, Jr., Dr. W. A. Edson, M. S. Alexander, and Dr. G. A. Rossetlot. The chairmen of the committees which made the conference arrangements were: Honorary Chairman, Colonel Blake R. Van Leer; General Chairman, M. A. Honnell; Program Chairman, Ben Akerman; Exhibit Chairman, C. F. Daugherty; Arrangement Chairman, G. A. Rossetlot; Registration Chairman, R. S. Howell; Housing Chairman, M. R. McClure; Promotion Chairman, L. F. Zsuffa; and Ladies Chairman, Mrs. F. C. Bragg.

The technical papers presented were "Performance of Limiting Amplifiers," by W. W. Dean and L. M. Leeds (presented by L. M. Leeds), General Electric Co.

"Cross Talk in Audio Systems," by Ben Akerman, Radio Station WGST.

"Safety Precautions for Radio Stations," by William N. Cox, Jr., Georgia Tech.

"Studio Design," by George Nixon, Assistant Director of Technical Development, National Broadcasting Company.

"Design of Studios for Small Stations," by A. F. Henry, Acoustic Engineering Co.

"Antennas for Standard Broadcast Stations," by R. F. Holtz, Radio Corporation of America.

"Symposium on Recording," by Ivan Miles, Radio Station WGST; Frank Parkins, Radio Station WSB; and Henry White, Radio Station WSB.

"FM Systems," by W. H. Doherty, Bell Telephone Laboratories; Nils Oman, Radio Corporation of America; J. M. Comer, General Electric Company; and D. C. Abbott, Westinghouse Electric Company.

"FM Antennas and Transmission Lines," by A. G. Kandoian, Federal Telephone and Radio Corporation, and Robert F. Holtz, Radio Corporation of America.

"FM Transmitter Measurements," by John L. Johnson, Westinghouse Electric Company; and H. P. Thomas and L. M. Leeds (presented by L. M. Leeds), General Electric Company.

"Program Transmission Circuits for FM," by R. H. Daugherty, American Telephone and Telegraph Company.

"Status of FM Broadcasting," by W. R. David, General Electric Company.

"Design Problems of a Modern Home Receiver," by Z. Bennin, Research Department, Zenith Corporation.

"Questions and Answers," conducted by John A. Willoughby, Assistant Chief Engineer, Broadcasting Branch, Federal Communications Commission.

"Television Equipment Layouts," by P. G. Caldwell, General Electric Company.

"High-Frequency Tubes," by T. A. Elder, General Electric Company.

"Stratovision," by C. E. Noble, Westinghouse Electric Company.

"FM Propagation in the Atlanta Area," by M. A. Honnell, Georgia Tech, and A. W. Shropshire, Radio Station WSB.



Left to right: T. A. Elder, General Electric Company; Dr. W. A. Edson, Georgia Tech Electrical Engineering Department; E. S. Lammers, Westinghouse Electric Corporation, Atlanta, Georgia; Professor M. A. Honnell, Georgia Tech Electrical Engineering Department, Conference General Chairman; C. F. Daugherty, Chief Engineer, WSB, and Conference Exhibit Chairman; and L. M. Leeds, General Electric Company, Syracuse, N. Y.



Left to right: Colonel Blake Ragsdale Van Leer, President, Georgia School of Technology; John A. Willoughby, Assistant Chief Engineer, Broadcasting Branch, FCC; Allan Woodall, President, WDAK, and Vice President of the Georgia Association of Broadcasters; Lewis M. Gordon, vice president, Citizens and Southern National Bank, Atlanta; and Paul H. Herndon, Inspector in Charge, FCC, Atlanta Office, and Chairman, Atlanta Section, I.R.E.



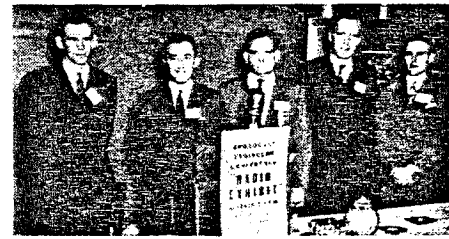
Left to right: W. R. David, General Electric Company; John A. Willoughby, Assistant Chief Engineer, Broadcasting Branch, Federal Communications Commission, leader of a question-and-answer session on FCC; Paul H. Herndon, Inspector in Charge, Federal Communications Commission, Atlanta Office, and Chairman of Atlanta Section, Institute of Radio Engineers; and A. W. Shropshire, Assistant Chief Engineer, The Atlanta Journal Station WSB.



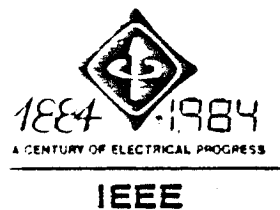
Left to right: E. S. Lammers, Westinghouse Electric Corporation, Atlanta, Georgia; C. E. Noble, Westinghouse Electric Corporation; P. G. Caldwell, General Electric Company; and Dr. G. A. Rossetlot, Director of Georgia Tech Engineering Experiment Station, and Conference Arrangements Chairman.



Left to right: C. F. Daugherty, Chief Engineer, WSB, and Conference Exhibit Chairman; George Nixon, Assistant Director of Technical Development, NBC; W. L. Fattig, General Electric Company; Duane F. McConnell, WRUF; and Phil C. Bangs, Acoustic Equipment Company.



Left to right: J. M. Comer, General Electric Company, and W. H. Doherty, Bell Telephone Laboratories; Ben Akerman, Chief Engineer, Station WGST, Atlanta, Georgia, and Conference Program Chairman; Nils Oman, General Electric Company, and D. C. Abbott, Westinghouse Electric Corporation.



IX

REGION 3

EVENTS OF NOTE

THROUGH THE YEARS

CHRONOLOGY OF REGION 3 EVENTS

<u>YEAR</u>	<u>EVENT</u>
1849	First telegraph used in Atlanta.
1852	Dr. Alexander Means first demonstrated an electric light in Georgia at Oxford College, Oxford, Georgia.
1861	Capt. Matthew Fontaine Maury proposes a clandestine Confederate Naval Submarine Battery Service. This was approved by the Confederate Congress in early 1862 to develop electrically detonated weapons.
1862	The 512-ton Federal gunboat Cairo was sunk by Confederate remotely controlled electric mines in the Yazoo River, Mississippi.
1877	First telephone installed in Western & Atlantic Railroad office in Atlanta, and by 1879 there were 55 subscribers under the National Bell Telephone Company.
1879	Southern Bell Telephone Company chartered.
1880	First home equipped with electric lights in Atlanta.  Southern Bell begins operations in 11 cities.  East Tennessee Telephone Company established an exchange in Lexington, Kentucky, run by two male telephone operators, covering day and night schedules. A maze of wires funneled out of a single window to a series of poles down Main Street. Several other competing telephone companies sprang up in Lexington, finally being consolidated in 1912 under the Fayette Home Telephone Co.
1881	First telephone installed in a home in Atlanta.  First telephone switchboard exchange opened in Atlanta, as National Bell was sold to Southern Bell.
1882	First electric light franchise in Atlanta awarded to Brush Electric Company.  In Lexington, Kentucky the Weston Electric Light Company is chartered in July, and arc lights begin to appear on Main Street. The Phoenix Hotel bought 200 incandescent electric lights and Lell's Hotel bought 100.
1884	Norvin Green, a native of New Albany, Indiana (in Region 3) was elected the first president of AIEE, serving two consecutive terms in office .  First electric arc street lights used in Atlanta.
1885	Atlanta has 626 telephone subscribers and 22 electric arc street lights.
1886	First city-wide electric street car system in the world installed in Montgomery, Alabama by C. J. Van Depoele.
1887	Frank Julian Sprague built the 12-mile Richmond, Virginia street electric railway in 3 months, developing effective solutions to the problem of motor speed control, housing & suspension, geared drive, and the proper form of trolley contact. It formally began operation on 2 February 1888 with 40 cars.

- 1888 General Electric Light Company signed 3-year contract with city of Atlanta for 400 street lights @ \$30 per light per year.
- Electric street railway opened in Richmond, Virginia. Designed by F. J. Sprague, it had 40 cars and 12 miles of track. (2/2)
- 1889 First electric streetcars (the Atlanta and Edgewood Street Railway) began operation in Atlanta, Georgia. The fare was 10 cents. (8/22)
- Asheville, North Carolina electric railroad begins operation.
- 1890 AIEE has 5 members in southeast (Alabama 1, Georgia 1, Virginia 3).
- University of Virginia EE Department begun.
- Atlanta has 980 telephone subscribers.
- Winston-Salem, North Carolina electric railway, designed by F. J. Sprague, in collaboration with Thos. A. Edison, begins operation on 7/14, continuing until 1936.
- The first electric powered trolley car ran in Lexington, Kentucky from the car barn on Loudon to the Phoenix Hotel (9/1).
- 1891 First electricity generating plant in Atlanta in operation.
- Alabama Polytechnic Institute (later Auburn University) EE Department begun.
- 1892 First 24-hour electricity available in Atlanta.
- University of Kentucky EE Department begun.
- 1893 Clemson Agricultural College EE Department begun.
- Columbia Mills in Columbia, S. C. was the first completely electrified textile mill.
- Pelzer Mills in Pelzer, S. C. followed Columbia, and when word got out about its electrification, its stock dropped \$25 a share.
- 1894 Tulane University EE Department begun.
- Nearly 1000 lights and 44 miles of electric railway in Atlanta.
- Annual convention of American Street Railway Association held in Atlanta, Georgia in October.
- 1895 University of South Carolina EE Department begun.
- Atlanta has 13,000 incandescent and 416 arc lights.
- 1896 Georgia Tech EE Department begun.
- 1897 Atlanta has 20,880 incandescent and 1,016 arc lights.
- Nearly 5 million kwh generated annually by Georgia Electric Light Company.
- 1898 Virginia Military Institute (VMI) EE Department begun.  
Virginia Polytechnic Institute (VPI) EE Department begun.  
North Carolina State EE Department begun.

- 1899 Toccoa Falls (Ga.) hydroelectric plant built to supply the small community of Toccoa Falls.
- 1900 AIEE has 42 members in southeast (Alabama 3, Florida 1, Georgia 9, Kentucky 3, Louisiana 3, Mississippi 3, North Carolina 3, South Carolina 2, Tennessee 1, Virginia 14).  
First underground electrical system (DC) installed in Atlanta.  
University of Mississippi EE Department begun.  
Florida has less than 10 electric motors in use in manufacturing.
- 1901 There are 139 miles of electric street railway in Atlanta.
- 1902 Mississippi State University EE Department begun.  
Chestatee power plant of 1200 horsepower built near Gainesville, Georgia.  
F. A. Fessenden, a colleague of Thos. A. Edison, conducts experiments along the North Carolina coast with his wireless telephone. He succeeds in transmitting musical tones from Hatteras Island to Roanoke Island, 52 miles away, marking the beginning of modern radio broadcasting.
- 1903 Wright brothers make first mechanically propelled aircraft flight, Kitty Hawk, N. C. (12/17).  
Number of electric railway passengers in Atlanta doubled (to 46 million) from 1903 - 1908.
- 1904 First AIEE section in the southeast, the Atlanta Section organized, with 19 members (including 5 students) (1/19). Allen M. Schoen is chairman (1/19).  
First hydroelectric generator in operation at Morgan Falls (Bull Sluice) on the Chattahoochee River, north of Atlanta. The largest in the south, its generators were examples of the rotary field, salient pole design which was then dominant but superseded soon afterward. Output power was 22,000 volts at 25 cycles, and it still supplies 17,000 kw to Georgia Power.
- 1905 AIEE has 37 members in Georgia.  
University of Florida EE Department begun.
- 1906 Streetcar fare is 5 cents in Atlanta. Motormen received a pay raise to 20 cents an hour, making the astounding wage of \$2.80 for a 14-hour day. This decimated the Atlanta police force, since they were receiving about 15 percent less for their 14-hour days.  
66,000 volt transmission line completed from Gainesville to Atlanta, Georgia using the first steel towers in the southeast, the second such line in the U. S.  
Alabama Power Company organized.
- 1907 Forerunner of the Georgia Public Service Commission was created to regulate utilities. Victor talking machines were advertised in Atlanta.  
Tungsten filament lamp comes into use.
- 1908 Louisiana State University EE Department begun.  
United Fruit Company erects radio communications station in New Orleans, operating on 1800 meters wavelength.
- 1909 Electric vacuum cleaners of Santo and Electric Renovation Company were advertised in Atlanta.  
Electric flat irons were also advertised by the Georgia Railway.

1910 University of Tennessee EE Department begun.

University of Kentucky AIEE student branch organized (10/14).

North Carolina A&M College AIEE student branch organized (2/11).

Norfolk AIEE Section in operation.

There were 10,000 automobiles in Georgia.

1911 Barnett Shoals hydroelectric plant completed in the Oconee River, south of Athens, Ga.

University of Alabama EE Department begun.

New Orleans and Norfolk both have Navy radio stations in operation.

First advertisement in an Atlanta newspaper (at Christmas) offered an electric percolator for \$7.50, a 6-inch disc electric stove for \$5, a 6-pound electric iron for \$5, and an electric toaster for \$4 -- a total value of \$21.50 for the bargain price of \$13.50. These were the only electric home appliances then in use except for a fan in the summer.

1912 Georgia Railway and Power Company organized.

Clemson Agricultural College AIEE student branch organized (11/8).

University of Virginia AIEE student branch organized (2/9).

Key West Navy radio station in operation.

1913 Tallulah Falls hydroelectric plant completed in north Georgia. With a head of 608 feet, it was the highest in the eastern U.S. Its generating capacity of 108,000 hp made it second only to Niagara Falls and Keokuk in capacity. The generators were fed via a 6,666-foot tunnel from the reservoir.

The connection of the Georgia System to the Southern Power Company distribution lines in South Carolina attracted national attention and set an important precedent for the large scale exchange of electrical energy between independent systems and across state lines.

Jackson Shoals hydroelectric plant (2000 kw) near Coosa River in Alabama in operation. A 10,000 kw steam electric plant in Gadsden connected with Jackson Shoals, supplying power to Talladega and Gadsden.

The Tampa Electric Company in Florida offered interesting lighting contracts, providing free light bulbs to customers who brought in their burned-out bulbs.

- 1914 Lay Dam at Coosa River Lock 12 in Alabama begins operation.
- IRE has at least 13 members in southeast (Florida 2, Louisiana 5, North Carolina 3, South Carolina 1, Virginia 2).
- Navy radio stations in the southeast are in operation at Diamond Shoals Lightship, Beaufort NC, Frying Pan Shoals Lightship, Charleston, St. Augustine, Jupiter, and Pensacola.
- Time signals are broadcast daily at 11:55 am from Key West and New Orleans Navy radio stations.
- The Key West radio transmitter was received at the University of California.
- Marconi Company erects a radio station in New Orleans, operating on 600 meter wavelength.
- Tropical Radio Telegraph Company also erects a communications station at New Orleans.
- Georgia Tech AIEE student branch organized (6/23).
- University of North Carolina AIEE student branch organized (10/9).
- University of Alabama AIEE student branch organized (12/11)>
- 1915 John Stone - Stone, a native of Dover, Virginia, was elected president of IRE. He was also elected a Fellow, the first in IRE from Region 3.
- Vanderbilt University EE Department begun.
- VPI AIEE student branch organized (1/8).
- United Fruit Company erects four 295-foot towers for their 50 kw communications station at New Orleans.
- 1916 T. F. Johnson in Georgia patented the Johnson transmission clamp which enables line crews to repair "hot" lines up to 110,000 volts.
- Congress authorized construction of Muscle Shoals, Alabama site (Wilson Dam) to produce nitrates. The dam was finally completed in 1925.
- Alabama Polytechnic Institute AIEE student branch organized.
- Margaret Ingels graduates from the University of Kentucky in mechanical engineering, the first woman in the world with a mechanical engineering degree. Three years later she also obtained her master's degree.
- 1917 Tampa Navy arc radio station in operation.
- Navy investigates underground radio reception at New Orleans (H. H. Lyon is consultant). This is aimed at determining the feasibility of communicating with submarines. Considerable success is achieved, especially in reducing static.
- First workable airborne radio telephone tests were conducted at Langley Field, Virginia, including air to air, air to ground, and ground to air.
- W.T.Gravely (Danville, Va.) and J.C.Cooper, Jr. (Jacksonville, Fla.) were named directors of the American Radio Relay League (ARRL).
- 1918 Changeover from direct current to alternating current power began for the underground distribution system in central Atlanta. This was finally completed in 1926.



1920. Radio station 4XD begins experimental operations in Charlotte, N. C.

VMI AIEE student branch organized.

Radio station 4FT is in use by Georgia Railway & Power Company in Atlanta. Later transferred to Georgia Tech, it became WGST in 1922.

1921 The interconnection of the principal power systems in Alabama, Tennessee, the Carolinas, and Georgia was completed.

Three iron-wire repeaterless telephone cables were laid between Key West and Havana. This was the first undersea cable used for telephony.

1922 First radio broadcast station in the south, WSB in Atlanta, begins regular operations with 100 watts (3/15).

Southern Virginia AIEE Section organized, the second AIEE Section in the southeast.

WBT is first licensed radio station in the Carolinas, beginning operation with 100 w. (4/10)

John DeWitt, Jr. at the age of 16 built and operated 15-watt WDAA, the first broadcast station in Nashville, Tenn.

First international Amateur radio communication in Caribbean took place between 4OI in Puerto Rico and 4FT and 4BX in Wilmington, N.C. (9/15)

1923 Charles G. Adist, a widely recognized hydroelectric expert and official of the Georgia Railway and Power Company, was named Fellow of the AIEE, one of the first six AIEE fellows. He is believed to be the first AIEE Fellow named from the Southeast.

1924 Mississippi Power Company organized.

Atlanta Association of Radio Engineers organized, the predecessor to the IRE.

Southern Virginia AIEE Section holds joint meeting in Richmond (10/17) with other Virginia engineering societies.

AIEE Spring Convention of the Institute held in Birmingham (4/7-11).

University of Tennessee AIEE student branch established (10/2).

The Virginian Railway constructed over 134.5 miles of line from Roanoke, Virginia to Mullens, West Virginia from 1924 to 1926. The grades of the track and the heavy coal tonnage made electric power an attractive alternative to steam. Three-phase current at 11,000 v was generated, stepped up to 88,000 v for transmission, reduced again to 11,000 v for distribution, and then converted in the locomotive to single-phase. The Virginian's first locomotives delivered a 92,500 pound tractive force.

1925 University of Evansville EE Department begun.

University of Florida AIEE student branch in operation.

University of Louisville EE Department begun.

Great drought in the south crippled hydroelectric development.

Alabama Power supplies Mississippi with power via 115 kv transmission line.

South Carolina Power Company organized.

- 1926 Two AIEE Student branches in operation in N. C.: U.N.C.-Chapel Hill and N. C. State in Raleigh.
- Louisville AIEE Section organized (5/13). D. C. Jackson is chairman.
- AIEE Student branch formed at Duke University.
- With completion of Nacoochee Dam in Georgia, this became the most completely developed stretch of river for hydroelectricity in the U. S.
- Gulf Power Company organized in northwest Florida.
- Atlanta has 239 miles of electric railway.
- South Carolina Power Company organized.
- 1927 Electric lights were installed at Candler Field (Atlanta) for night flying operations.
- Atlanta IRE Section formed, the first in the southeast (7/16). Maj. W. Van Nostrand is chairman.
- First telephotograph was transmitted to Atlanta (1/9).
- Mississippi A&M College AIEE student branch in operation.
- Georgia Power Company organized, combining numerous electric railway and power companies.
- P. E. Lehde of New Orleans named a Fellow of IRE (9/27), believed to be the second in Region 3.
- J. W. Owens of Newport News named a Fellow of AIEE.
- LSU AIEE student branch is in operation and on 4/21 held "Electrical Vaudeville with some 30 exhibits and tricks in the program ... In addition to being entertained, the 380 who attended received several surprises."
- The first use of a directional broadcast antenna system was proposed for a Florida radio station by T.A.M. Graven and Raymond Wilmote. This marked an important milestone in the efficient use of the broadcast spectrum.
- 1928 New Orleans IRE Section formed (11/28), the second in the southeast. PE Lehde is chairman.
- Duke University EE Department begun.
- AIEE District 4 Conference on Student Activities and Convention was held at Georgia Tech 3/30-31 in cooperation with the Atlanta AIEE Section. Attendance was about 120.
- 1929 In North Carolina there are 1208 CEs, 393 EEs, & 224 MEs.
- North Carolina AIEE Section organized by Dean Walter J. Seeley in Charlotte. E. P. Coles elected chairman (3/22).
- University of South Carolina AIEE student branch organized.
- First General Meeting of North Carolina AIEE Section, Charlotte (10/23).
- NBC stations in the southeast included WRVA Richmond (1 kw), WBT Charlotte (5 kw), WSB Atlanta (1 kw), WJAX Jacksonville (1 kw), WMC Memphis (500 w), WSM Nashville (5 kw), and WHAS Louisville (5 kw).

- 1930 AIEE has 77 members in North Carolina, 142 in Georgia.
- Birmingham (later the Alabama) AIEE Section formed. O. E. Charlton is chairman.
- Plant Atkinson, a steam electric power plant on the Chattahoochee River near Atlanta, was completed. With a capacity of 60,000 kw, it was the largest such plant in Georgia. Its construction was spurred by a severe drought in 1925 which demonstrated the vulnerability of hydroelectric power to climatic variability.
- Memphis AIEE Section formed with M. Eldridge as chairman.
- Southern Virginia AIEE Section held joint meeting at VPI in Blacksburg (4/25-26) with Virginia sections of ASCE, ASME, and AChS.
- 1932 AIEE has 80 members in North Carolina.
- WSM in Nashville, Tenn. gets a new 50-kw transmitter on 650 kHz.
- 1933 President Roosevelt signed the bill setting up the Tennessee Valley Authority (5/11).
- WBT in Charlotte, N.C. gets a new 50-kw transmitter.
- North Carolina A&T State University EE Department begun.
- 1934 Mercury vapor lamps are first demonstrated.
- AIEE has 421 members in southeast (Alabama 39, Florida 40, Georgia 76, Kentucky 46, Louisiana 42, North Carolina 68, Tennessee 29, Virginia 81).
- AIEE Annual Convention held in Hot Springs, Virginia in June.
- 1935 1 billion kwh sold annually by Georgia Power.
- University of Louisville AIEE student branch in operation.
- AIEE Dist. 4 student conference held at VPI, Blacksburg (4/11-13) with 162 registrants. A series of talking pictures was presented by AT&T to an audience of 250. Six student papers were given.
- Following a September hurricane, emergency radio equipment using 5 watts between 4 and 5 Mc was used for communications between Miami and Key West, since all telephone circuits were out.
- An ice storm in central Georgia wrecked all wire communications. Amateur radio W4APX provided the only communications for 5,000 people.
- North Carolina is only state in southeast with state police radio system. Using "ultra high frequencies", automobile transmitters were about 5 watts with a 6-foot steel rod antenna. Base stations use 50 w.
- 1936 First EMC in Georgia.
- Clemson Agricultural College hosted the AIEE Dist. 4 student conference.
- 1937 First electric trackless trolleys placed in service in Atlanta, Georgia (6/27).
- IRE has 148 members in southeast (Alabama 10, Florida 30, Georgia 31, Indiana 1, Kentucky 10, Louisiana 21, Mississippi 3, North Carolina 12, South Carolina 5, Tennessee 11, Virginia 14).
- 1938 Fluorescent lamps were introduced.
- The XAF radar, the prototype for the CXAM, was installed on the USS New York at Norfolk Naval Shipyard. Extensive tests in 1939 disclosed operational values beyond all dreams.

- 1939 University of Southwestern Louisiana EE Department begun.
- Muscle Shoals, Alabama AIEE Section in operation.
- AIEE has 802 members in the southeast (Alabama 77, Florida 73, Georgia 104, Indiana 1, Kentucky 56, Louisiana 97, North Carolina 85, South Carolina 37, Tennessee 179, Virginia 94).
- Tulane AIEE student branch in operation.
- 1940 First FM radio station in the south, WSB in Atlanta, begins operations.
- South Carolina AIEE Section organized (3/2) with 37 attending the meeting.
- Mississippi State College hosts AIEE Dist. 4 student conference (4/11-13) with 6 student papers and 175 registrants.
- AIEE has 103 members in Georgia.
- IRE has "representatives" at 5 colleges in southeast (Clemson, Florida, Georgia Tech, Kentucky, and VPI).
- A Richmond, Virginia firm developed a technique using dielectric heating to achieve quick hardening of the bonding cement used in making plywood. This was the first commercial industrial use of this technology.
- 1941 The Citadel EE Department begun.
- University of Alabama hosted AIEE Dist. 4 student conference.
- 2 billion kwh sold by Georgia Power.
- 1942 Tennessee Technological University EE Department begun.
- IRE has 225 members in southeast (Alabama 7, Florida 44, Georgia 38, Indiana 1, Kentucky 20, Louisiana 21, Mississippi 5, North Carolina 17, South Carolina 13, Tennessee 19, Virginia 40).
- Construction began on the atomic facility at Oak Ridge, Tennessee, the site chosen because of its access to the TVA electrical power generating capacity.
- 1944 Fontana Dam (N. C.) completed on Little Tennessee River for hydro electric purposes.
- 1945 Charlotte AIEE Subsection formed (10/14).
- AIEE Southern District Executive Committee meeting held in Charlotte (10/27).
- First air conditioned trackless trolleys in Atlanta.
- 1946 First Student Chapter in IRE formed at Georgia Tech by M. D. Prince.
- AIEE Southern District meeting held in Asheville (5/14-16).
- E. P. Cole (F '35) honored by AIEE North Carolina Section for his 50 years membership in AIEE.

1947. University of Miami EE Department begun.

Broadcast Engineers Conference sponsored by IRE, Georgia Tech, and Georgia Assn. of Broadcasters held at Biltmore Hotel in Atlanta (4/14-18), with over 1000 registered visitors to the exhibits and 150 registered participants in the technical sessions.

3 billion kwh sold by Georgia Power.

AIEE Dist. 4 Student conference held at University of Kentucky in Lexington in April.

E. M. Hastings, chief engineer of RF&P Railroad Company named ASCE president.

Georgia Tech first offers courses leading to the PhD in engineering.

1948 First television station in the south, WSB-TV in Atlanta, begins regular operations (9/29).

Georgia Power still obtains 60% of its power from hydroelectric sources (4 steam plants, 33 hydroelectric sites).

Tuskegee Institute EE Department begun.

An electrical engineering technology department began under a Georgia Tech division, which later became Southern Technical Institute (STI) near Atlanta. By 1984 STI was the largest producer of engineering technology graduates in the U.S.

General Electric engines on the Virginian Railway reached a record for paired units of 517 tons weight and 260,000 pounds tractive force.

1949 MidState (N.C.) AIEE Subsection (later the Winston-Salem Subsection) formed.

Atlanta, Georgia with 453 trackless trolleys has the largest such fleet in the United States.

1950 4 billion kwh sold by Georgia Power.

AIEE District 4 Student Conference held at Georgia Tech, Atlanta in April.

First "SA" undersea cable with repeaters and carrying 24 voice channels entered service between Key West, Florida and Havana, Cuba in May. It is still in service.

1951 A 75,000 watt incandescent lamp was demonstrated at the Southeastern Fair in Atlanta (10/10).

1953 Eastern North Carolina AIEE Subsection formed.

North Carolina Bulletin began publishing.

Furman Shoals (Sinclair Dam) placed on line in Georgia.

1954 Western North Carolina AIEE Subsection formed.

Christian Brothers College EE Department begun.

1st National IRE Conference on Instrumentation held at Biltmore Hotel in Atlanta.

- 1955 Piedmont IRE Subsection formed in Greensboro, N. C., a part of the IRE Virginia-North Carolina Section.
- Georgia Tech gets its first digital computer, a Univac Scientific 1101.
- Lockheed-Georgia Company began work on a nuclear powered aircraft with Pratt and Whitney. The program was suspended three years later.
- Georgia Power Company participated in construction of a nuclear power plant.
- 1956 Southern University EE Department begun.
- IRE Conference on Instrumentation again held in Atlanta.
- 8 billion kwh sold by Georgia Power.
- 1957 North Carolina IRE Section formed, H. H. Arnold - chairman.
- 1958 First U.S. satellite, Explorer I, launched from Cape Canaveral, Florida (1/31).
- Florida Institute of Technology EE Department begun.
- 1959 N. S. Savannah, world's first atomic powered merchant ship, launched (7/21).
- The Interservice Data Exchange Program (IDEP) was set up at Redstone Arsenal, Alabama to exchange equipment reliability data between government agencies and contractors.
- Two prototype QB-47 high-speed, high-altitude target drone aircraft were developed by Lockheed-Georgia near Atlanta. These included electronic countermeasures and electronic scoring systems.
- The first use of fiber optics in an aircraft was with the Lockheed RC-130A aerial mapping aircraft for the U. S. Air Force.
- 1960 AIEE has 472 members in Georgia.
- WSM in Nashville, Tennessee was authorized by the FCC to conduct tests of compatible single side band modulation.
- "Echo" satellite, a 100-ft. diameter metallized plastic balloon, was launched by NASA as a passive communications repeater (8/12)
- "Courier" satellite was launched as an active delayed communications repeater, capable of voice, facsimile, and high-speed digital data transmission (10/4). Its operation was 1.7-1.8 GHz (receive) and 1.8-1.9 GHz (transmit).
- First missile (a Lockheed Polaris) fired successfully from a submerged submarine (the SSBN George Washington) off the coast of Florida (7/20). The second missile was fired just three hours later.
- 1961 CDR. Alan B. Shepard, Jr. launched in first U. S. manned sub-orbital flight from Cape Canaveral, Florida (5/5).

1962. LCOL. John H. Glenn, Jr. launched from Cape Canaveral, the first American to orbit the earth (2/20).
- First U. S. communications satellite launched from Cape Canaveral, Florida in July.
- Old Dominion University EE Department begun.
- The Virginian Railway abandoned electrification, following its merger with the Norfolk & Western Railway.
- First "SD" undersea cable with 138 voice channels connects Florida with Jamaica and Panama.
- 1963 AIEE and IRE formally merge into IEEE (1/1).
- School of Information and Computer Science established at Georgia Tech.
- University of North Carolina (Charlotte) EE Department begun.
- Last trackless trolleys phased out in Atlanta, Georgia (9/26).
- Lockheed-Georgia Company developed first computer-aided design facility in southeast.
- The Voice of America begins broadcasting in March from its new high power shortwave transmitters in Greenville, North Carolina.
- The first digital computer was integrated into a transport aircraft, the Lockheed C-141A, which first flew on 12/17 at Marietta, Georgia.
- 1964 University of South Alabama EE Department begun.
- 1965 Five North Carolina Subsections achieve section status: Central, Charlotte, Eastern, Western, and Winston-Salem (11/9).
- University of South Florida EE Department begun.
- 1966 Affiliation of the five North Carolina Sections approved.
- University of Alabama (Huntsville) EE Department begun.
- 1967 Memphis State University EE Department begun.
- 1968 First manned spacecraft (Apollo 8) to moon launched from Cape Canaveral (12/21).
- The largest aircraft in the world, the Lockheed C-5A, made its first flight on 6/30. Its complex avionics suite includes 38 antennas. The C-5A is built in Georgia.
- First "SF" undersea cable using transistors and with 845 voice channels connects Florida with St. Thomas, Virgin Islands.
- 1969 Neil A. Armstrong, launched from Cape Canaveral, sets foot on the moon with activities watched via television throughout the world (7/20).
- University of Central Florida EE & Communication Sciences Department begun.
- Area Chairman concept begun by Regional Activities Board, using Region 3 as a model.
- R. S. Duggan named first area chairman (Area 3), covering Georgia, South Carolina, and northern Florida.

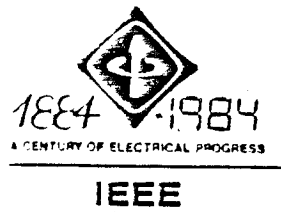
- 1970 IEEE has 1047 members in Georgia.
- Florida Atlantic University EE Department begun.
- 1971 H. B. Robinson Unit 2, Hartsville, S. C. becomes first nuclear power plant in commercial operation in Region 3.
- 1972 Area Chairman concept approved. The North Carolina Affiliation becomes Area 2 of Region 3.
- 1975 First successful laboratory demonstration of a telephone system using fiber optics at Bell Laboratories, Atlanta (11/14).
- The TVA system includes 29 hydro plants (3.2 Bw), 12 coal fired plants (17.7 Bw), 3 combustion turbine plants (2.2 Bw), and 15 planned nuclear facilities (19.3 Bw).
- 1976 Joseph K. Dillard, a native of South Carolina, was elected President of IEEE.
- Viking I, launched from Cape Kennedy, Florida makes first spacecraft landing on Mars. Viking II subsequently lands and transmits pictures of landscape back to earth.
- The nation's first "superstation", WTBS in Atlanta, begins relaying its TV programs via satellite to North America (12/6).
- 1978 Council status approved for North Carolina (12/8).
- 1979 University of Alabama (Birmingham) EE Department begun.
- Electric rapid rail transit returned to Atlanta with the first subway in Region 3 (6/30).
- 1980 The Cable News Network began first all-news operations via satellite relay (6/1). First permanent commercial telephone system (6.5 miles) to use fiber optics was installed by Southern Bell in the metro Atlanta area (9/15).
- The South Carolina Council (Area 7) of Region 3 formed, embracing South Carolina and the segment of Georgia near Aiken, South Carolina. A. Chad Merrell is the first chairman.
- 1981 Southcon held for first time in Atlanta, jointly sponsored by IEEE (Atlanta Section, Florida Council, Region 3) and the Electronic Representatives Association. Attendance was almost 10,000. Chairman of the Board was Dr. Joseph M. Pettit, president of Georgia Tech (1/13-15).
- The Virginia Council of Region 3 is formed from Area 1. Gary R. Keesecker is the first Council chairman.
- 1982 Knoxville, Tennessee holds World's Fair with focus on Energy.
- First IEEE short course (Project Management) transmitted via satellite to North America from Columbia, S. C. (1/12).
- Georgia Tech Microelectronics Research Center formally chartered (1/1).
- Area 8 of Region 3 formed in April, embracing most of Kentucky and nearby segments of Indiana and Illinois. Anthony L. Shields is the first Area 8 chairman.
- Florida is connected with St. Thomas by an "SG" undersea cable having 4200 voice channels.



1983 Central Georgia Section formally chartered (1/19)

Dr. J. M. Pettit, Georgia Tech president, awarded Southcon Founders Award (1/19) and IEEE Founders Medal (4/18).

Bell South formally announced as name for telephone company covering most of Region 3.



X

REGION 3

DIRECTORS AND THEIR MEMORIES

REGION 3 DIRECTOR (1982-1983)

K. REED THOMPSON

General Electric Company

Salem, VA

It has been a distinct honor and privilege for me to represent Region 3 as its Delegate/Director to the Institute. Region 3 is the fastest growing Region in North America and has more Sections than any other Region in the world. We have by far the best student program in the Institute. Members are participating broadly and actively in the many sponsored activities, and they are deriving substantial personal and professional benefit from their association with the Institute. The leadership and organizational base is well established to allow these favorable trends to continue.

Regional Conference

The major yearly activity in Region 3 where it "all comes together for the Region" is at SoutheastCon. SoutheastCon '82 was held in Destin, Florida, under the able leadership of Carolyn Schauble and was an outstanding success. It illustrates what a few talented, hard-working and dedicated people can do even though the sponsoring Section is small and limited facilities are available. Attendance was approximately 250 regular members and 500 students. This conference also showed that SoutheastCon can vigorously thrive in competition from Southcon, which was in the same state with only one week separation in time.

SoutheastCon '83 was held in an outstanding facility in Orlando, Florida, under General Chairman Russell Theisen. Excellent hotel and meeting room facilities were provided. Attendance of regular members was substantially less than expected, but the students again turned out in force with about 500 in attendance. Several complaints received from the student participants reinforced the need for adequate activity planning and management for a student conference of this size.

At both SoutheastCons the regular annual meeting of the Regional Committee was held with excellent attendance from Officers and Section Chairmen from throughout the Region. In both cases, Section Officer workshop and Professional Activity workshops were held so that attending officers could take back ideas, information and skills to their Sections to enhance their effectiveness throughout the Region. In conjunction with the Student Conference, there was also a Student Branch Counselor workshop each year, and in 1983 an example Student Professional Awareness Conference was held to show the Student Branch chairmen the typical content and scope of such a conference.

Southcon '82 was held in Orlando and was well attended, but suffered from the need to disperse the exhibits among several locations because the Orlando Conference Center was not yet available. A modest surplus was generated at this conference. Southcon '83 was held in Atlanta and continued to show vigor and growth. The outstanding facilities of the World Congress Center are exceptionally well suited to this kind of conference. The third day of the show was impacted by a snow and ice storm which quickly brought Atlanta traffic to a standstill. The trend from these Southcons indicates that it is still being nurtured, and while it is successfully delivering valuable service to vendors and buyers in the Region, it has not yet matured into a consistently sufficient financial success.

### Student Activities

The number of student branches grew from 60 to 63 during this period, and the activity was of high quality and enthusiastic. At student branches a great deal depends on the leadership given by the student branch counselor. Evidence of high quality leadership in this Region is shown by the receipt of Outstanding Branch Counselor awards. Each year the Institute makes 10 of these awards, and in 1982 three came to Region 3. They were received by Dave Dumin at Clemson, Malcolm D. Calhoun of Mississippi State University and Russell E. Trahan of the University of New Orleans. In 1983 we received two of these Outstanding Branch Counselor awards, one to Robert Coleman of the University of North Carolina at Charlotte and the second to Jon McDearman of Tennessee Technological University. Our student branches participate strongly in their annual Student Conference in conjunction with SoutheastCon with more than 500 attending in both 1982 and 1983. They bring their customary enthusiasm to the annual Electrical Device Contest and the Student Paper Contest. Having the Student Conference in parallel with SoutheastCon also allows the students to actively participate in the technical program available at that conference.

### Professional Activities

The interest in and support of professional activities has been high in certain Sections of the Region from the beginning in 1973. This enthusiasm has broadened substantially during these two years and one result is that of the total of 17 USAB awards given in 1982, 8 came to Region 3 including the highest award for Professionalism, which was presented to Larry Dwon of the Eastern North Carolina Section. Region 3 Coordinator Val Bodin obtained attendance of 8 to 10 Region 3 PACE leaders at the Professional Activities Workshops held at Phoenix, Arizona in both 1982 and 1983.

A joint effort by the Professional Activities Operation and the Student Activities Committee was the sponsorship of Student Professional Awareness Conferences. SPAC's were held at Clemson and North Carolina State in 1982. In 1983 they were held at Virginia Tech, Tennessee Tech, Vanderbilt and the University of Tennessee. In every case, the interest in the Institute generated by these conferences caused substantial increases in the branch membership at each school.

### Organizational Structure

The Region 3 organization was expanded and adapted to better serve as a vehicle for delivering Institute services to our members. Area 8, comprising our part of Kentucky, was established in April 1982. A new Section was created at Central Georgia in November 1982. The existing Panama City Section and Tallahassee Sub-sections were reorganized into a new Tallahassee Area Section in 1983. Three new student branches were established, one at the Tri-Cities Section, one at the University of Tennessee at Chattanooga, and the third at Florida State University. Numerous society chapters were established within sections and the student branches.

### Public Relations

The need to institute a substantive Public Relations activity to enhance the public's understanding and appreciation of engineers and engineering was recognized. Some progress was made in this direction by Bob Tanner in putting together a speech which he has given to various groups and also distributed for use by others. Substantially more progress is needed in this area.

### Region 3 Awards

Under the leadership of Vernon Powers, the Region's Awards Program has been substantially expanded and codified. The Outstanding Engineer awards were presented to Jack Davey of New Orleans in 1982 and Ronald Schafer of Atlanta in 1983. The Outstanding Service awards went to Joseph Biedenbach of Columbia, South Carolina in 1982 and to Russell Theisen of Orlando in 1983. The Awards Program was expanded to include a third major award titled "Outstanding Educator Award" to allow the recognition of contributions in this particular field as distinguished from the Outstanding Engineer Award and it will be available in 1984. It is emphasized that a person's primary occupation does not dictate which of these awards they might receive. Another award was inaugurated to inspire Section planning and achievement and is called the Exemplary Section Award. Several of these may be given each year in recognition of unusually outstanding achievement of Sections in service to their membership. The first two Exemplary Section Awards were presented at SoutheastCon '83. One went to the Orlando Section and the other to the Alabama Section. The Region has also insured nominees for the Institute's major awards, and we were very pleased to have the Founders' Medal in 1983 come to Dr. Joseph Pettit of Georgia Tech.

### Membership Development

Region 3 continued its outstanding membership growth, leading all other regions of the United States in percent growth for both 1982 and 1983. Chairman Ensign Johnson provided leadership and incentive for this achievement, which has been recognized by his appointment as Vice Chairman of the Institute Membership Development Committee. We began 1982 with a total of 22,710 members and expect to end 1983 with more than 25,500, more than 12% increase in two years.

### Other Items

The Institute's Board of Directors has had one of its four yearly meetings in Region 3 in both 1982 and 1983. In 1982 the November meeting was in New Orleans and the 1983 November meeting was in Atlanta. A feature of these meetings is a traditional Sunday evening reception and dinner for local Section officers and their spouses, which allows good person-to-person communication between Institute officers and local officers and allows contacts to be made that are useful in managing Section affairs. These receptions were very well attended.

In 1983 we were saddened by the deaths of former Director Larry K. Wilson and the current Region 3 Secretary/Treasurer Anthony S. Urano.

We are indebted to Vice Chairman Robert Duggan for the enthusiastic and energetic efforts in his visitation program to Section and Area/Council meetings and for the compilation of the history of the Region in conjunction with the Institute's Centennial observance, of which this document is a part.

Respectfully submitted,

*E. Reed Thompson*

REGION 3 DIRECTOR (1978-1979)

ROY H. HARRIS

Western Electric Company

Greensboro, NC

I consider the opportunity of serving as your Regional Director and on the Board of Directors of IEEE to be one of the highlights of my professional career. The opportunity to work with and get to know so many of our engineers throughout Region 3 was indeed an outstanding experience. The responsibility and long hours of extra work added to a continuing full load with my "paying" job with Western Electric Company were indeed a challenge. I was able to meet this challenge only through the full cooperation and support from many people.

First, my boss Lew Bain and my other associates at Western Electric who had to assume additional work due to my frequent absence during these two years. Second, the strong support from all of my executive committee with special thanks to preceding Regional Directors W. L. "Sully" Sullivan and L. K. "Larry" Wilson, my Secretary/Treasurer J. J. "Jimmy" Strothers, my Student Activities Chairmen Professor Lyle Back from the University of Kentucky and later Dr. Fred Symonds of the University of Tennessee, and their excellent Regional Student Representatives, Julie Ellis from Georgia Tech and later Carol Nunnally from the University of North Carolina at Charlotte.

In addition, a special thanks to Thomas T. McDugald and K. Reed Thompson who assumed the responsibility for the extremely demanding task of being General Chairmen of Southeastcon in 1978 and 1979 respectively.

I would like to express a special appreciation to Dot Daniels, my secretary, who had a tremendous added load (with no additional pay) during my two-year term of office.

Last but not least, I would like to thank my wife Peggy for her support and understanding during my many trips away from home and her outstanding contribution as official "hostess" for many IEEE meetings within our Region.

Some significant activities and accomplishments during my term are the following:

Southeastcon

Southeastcon is our major Region 3 Conference each year. It is made up of four major activities: No. 1 - The annual Regional Conference which is the Regional 3 governing body whose membership is the Executive Committee and the Section Chairmen; No. 2 - Student and Branch Counselors Conference and Workshop which includes a Student Prize Paper Contest; No. 3 - Technical Papers; and No. 4 - Equipment Exhibits.

These conferences are hosted by a Section or Council. The determination of the Host Organization is the result of a formal bid made to the Regional Conference. This provides us the opportunity to move the conference to various locations throughout the Region.

In 1979 we initiated the Best Paper Award. This carries a cash stipend. It is hoped that this award will provide an additional incentive to improve the overall quality of the Technical Papers presented.

Southeastcon 1978, April 9 - 12, Atlanta, Georgia  
Southeastcon 1979, April 1 - 4, Roanoke, Virginia

### Student Activities

Region 3 has always been noted for its outstanding student activities. Much of the credit for the strength of our program should go to our Student Activities Chairman and the Regional Student Representative. Of course, the success of the individual branches is largely attributable to the Branch Counselors' performance. A couple of programs that we have in Region 3 to recognize these contributions are: No. 1 - Each year we recognize the top 10 Student Branches out of the 55; No. 2 - Several of our Counselors achieved national recognition as they were included in the award as one of the 10 outstanding Counselors in IEEE. In 1979 the following Region 3 Counselors achieved this recognition:

1. Brother Phillip Morgan - Christian Brothers College
2. Dr. P. F. Duvoisin - Tulane University
3. Dr. Richard O. Claus - Virginia Polytechnic Institute

It has long been recognized that the lifeblood of IEEE is the input to our membership from the student members. In order to increase the percentage of students who upgrade to member grade after graduation, the Regional Activities Board and the United States Activities Board jointly encouraged the initiation of a program called "Professional Awareness Among Students." The first of these conferences was organized and conducted in Region 3 at Vanderbilt University on March 20, 1979. The speakers for this conference were:

1. Dr. Bruno Weinschel, Vice President, Professional Activities
2. Dr. Leo Young, Executive Vice President, IEEE
3. Mr. Eric Herz, Executive Director, IEEE

### Councils

There has been considerable discussion throughout IEEE and by the Board of Directors concerning the problem of the Regional Director in managing a Region with up to 45 Sections. Region 3 pioneered a movement toward organizing Geographic Councils that would provide a statewide structure for improved coordination of IEEE activities within each state.

In January 1978, Paul Carroll, Vice President of the Regional Activities Board, asked me to chair a committee to study the organizational structure of the Regions. Specifically, the task was to develop recommendations including bylaw changes that would define a geographical council structure. Several developments gave impetus to the need for this action: the North Carolina Sections had formed an affiliation of Sections; the Florida Sections had formed a Florida Council; the India Sections were interested in an India Council; and there was confusion concerning the proliferation over the term "council" which was now being used to define a geographical council of a state or country, metro councils, and technical councils.

Out of this committee activity came bylaw changes that define the various types of councils and how they may be incorporated into the structure of our Regions and Technical Societies.

#### Southcon

As Region 3 Director, I was directly involved and very supportive of the organization of a large convention and show. Dr. Joe Pettit, President of Georgia Tech, and Dr. Demetrius Paris, Head of the Electrical Engineering School at Georgia Tech, were largely responsible for initiating the activity to bring this large conference to our Region. As Region 3 Director, I supported this activity and obtained approval for IEEE Executive Committee for organizing this conference and approval of the resulting bylaws. Our Regional 3 Executive Committee felt that Southcon would provide a service to our members that was not currently available in this Region. It would provide the opportunity to see displays of equipment of several hundred manufacturers at one time under one roof. This had been available in other shows in other Regions with shows like Westcon and Electro.

#### Election of Regional Director

In order to provide better continuity of leadership, we modified our election procedure to include the nomination and election of the Vice Chairman by the members of the Region. Previously, he had been appointed by the Regional Director. With this change, provisions were made in the bylaws so that the Vice Chairman would normally progress to Regional Director without an additional competitive election.



REGION 3 DIRECTOR (1976-1977)

LARRY K. WILSON

Vanderbilt University

Nashville, TN

(Editor's Note: Unfortunately, Dr. Wilson was unable to complete his write-up for this document before his death from cancer on 1 June 1983. His obituary from the INSTITUTE is included herewith).

## Wilson, former Vice President for Regional Activities, dies

Larry K. Wilson, professor of electrical engineering at Vanderbilt University in Nashville, Tenn., and 1980-81 IEEE Vice President for Regional Activities, died June 1. He was 59.

In addition to serving the IEEE as a Vice President, Dr. Wilson was vice chairman of the Regional Activities Board in 1977, Region 3 Director in 1976-77, a member of the U.S. Activities Board in 1976-77 and 1982-83, and the IEEE representative on the International Affairs Council of the American Association of Engineering Societies in 1980-83. He was on the U.S. National Committee of UPADI in 1982-1983.

Dr. Wilson received the BSEE degree in 1955 from the Georgia Institute of Technology. In 1959 he joined the Sperry Microwave Electronics Co., where he was involved in the early development of microwave ferrite devices. He received the doctoral degree from Vanderbilt University, Nashville, Tenn., and joined the faculty there in 1964, where his recent activities included research on microwave integrated circuits and amorphous magnetic materials.

At its June meeting in Denver, the IEEE Board of Directors passed a resolution of appreciation for Dr. Wilson that said, in part, "whereas his inspiration, motivation, and constancy of effort resulted in the founding of the new student magazine *IEEE Potentials* in 1981, be it resolved that the Board of Directors express its deep sorrow at the loss of its valued friend and



Larry K. Wilson

respected colleague."

The Regional Activities Board at its June meeting also passed a resolution expressing "its deep regret at the passing of an outstanding IEEE member and officer who gave so much of himself to IEEE and specifically to Regional Activities." The Regional Activities Board established the Larry K. Wilson Transnational Award, to honor Dr. Wilson's dedicated interest in the transnational activities of the IEEE over many years. The award, to be first presented for 1983, will honor "the most innovative activity selected from Regions 7, 8, 9, and 10 that best exemplifies the transnational goals and objectives of the Regional Activities Board."

REGION 3 DIRECTOR (1974-1975)

W. L. SULLIVAN

Southern Bell Telephone

Atlanta, GA

The Area Chairman concept of regional management was strengthened by providing funding for area workshops for section officers in each Area. Attendance at these was generally good with multiple representatives from individual sections. This not only provided needed training in section operations but gave the Area chairman a stronger role and tie to his sections.

There was slowly growing (very slowly in most locations) interest in professional activities. In fact in many sections there was still opposition to the IEEE involvement. The main exceptions were in the Huntsville and Canaveral sections which were already quite active due to the problems attendant to the phasing out of aerospace programs. There were still diverse views on this at the Board level also, and the Regional Director attempted to reflect the general viewpoint of the regional membership in these discussions. While professional support was low key within the Region, those sections which wanted to get involved were fully supported in their efforts. The first local project in the region and one of the first in the IEEE to be funded from the Regional Assessment (USAB funds) was originated by the Canaveral Section. This was a study of the potential for a solar energy project in the Cape area which would be supported by State of Florida and federal funds, utilizing unemployed or underemployed engineers who were already in the area. Ron Wojtasinski headed this study and was the prime mover. IEEE funds of less than \$100 were used printing, postage, and publication of the finished document for presentation to state government. A modification of the proposal was eventually established.

Southeastcon was held in Orlando in 1974 and Charlotte in 1975. Both meetings were successful and profitable, although there was great concern prior to the Orlando meeting about the impact the current gasoline shortage might have on attendance.

The Regional Outstanding Engineer award had been in existence for several years, but in 1974 an additional award for outstanding service to IEEE was introduced. George Pierce of the New Orleans Section was the first recipient of this award in 1974 at Orlando.

For Regional management purposes a set of operating guidelines was prepared with an implicit understanding that these would be used by the regional director and other officers from year to year to provide continuity. At this time it was pretty much up to the director as to how he ran the region, utilized its limited funds, etc. These original guidelines were later expanded and adopted by the membership as the Region Bylaws.

Student support was greatly expanded during this term. Prior to this a separate account had been maintained for student travel to Southeastcon and was entirely dependent on donations from the Sections. A different formula was used for reimbursement purposes, also. In 1975 student funding was included in the Regional budget, and travel reimbursement was made under the same formula and allowances with provision for each branch utilizing its allowance for prize paper winner, branch chairman, and counselor to get as many students as possible to the meeting. This policy has been more or less followed since that time.

*Sully*

REGION 3 DIRECTOR (1972-1973)

GROVER F. DAUSSMAN, P. E.

Huntsville, Alabama

1972-1973 seems ages ago. There is little I can provide in the way of details, or documentation which might bring to mind the kind of report I'm sure the occasion deserves. But I shall try to report as best I can recall under the circumstances.

I believe the single most significant event during my term was not a Region 3 event nor was it one I relish having a part in. This of course was the change in the IEEE constitution, which in my opinion was a major step in changing the thrust of IEEE from having been the finest technical society in the world (the kind of organization our founders had envisioned to facilitate the exchange and dissemination of technical information and knowledge) toward an organization where a great deal, if not most, of its concern and resources are directed toward political, economic, societal, and employment problems, resembling in many ways a labor union, not a professional society.

Perhaps the first significant event was a long distance telephone call from the newly elected IEEE President who, as I recall, tried to dictate the position I should take relative to a membership survey, foreboding the pressure which I soon felt was being brought to bear on me to support the change in constitution and to encourage Region 3 members to do likewise.

If I were to recall any other significant event, it might be the decision of the Board of Directors to increase the dues at a time when many IEEE members, including myself, were unemployed or working at jobs not related to electrical or electronic engineering. I think it significant because it seemed to me that the Board of Directors was not so much concerned with the plight of the unemployed engineers or those with reduced income as they were with having sufficient funds for carrying on various pet projects without adversely affecting other such projects. It seemed obvious that Board members either had their expenses and dues paid by their employer or were sufficiently well off that an increase in dues mattered little.

There seems little I can report in the way of achievements. If anything, despite a small overall increase in membership, the IEEE declined in stature as a technical society in my estimation. If the IEEE membership did not increase at the same rate as the world population, it may have been that the engineers were not so prolific in their breeding.

One obvious key assistant was Robert A. Trenkle of Huntsville, my appointed Secretary. Other salient contributions were made by Bob Duggan, Sully Sullivan, Zeb Burnett, and Demetrius Paris of Atlanta, Ben Martin of Charlotte, Joe Weil of Canaveral, Larry Wilson of Nashville, Dave McLaren, and many others whose names do not quickly come to mind but whose contribution I shall always be grateful for. Certainly from my associations with them on the Board, I have come to admire and respect Harold Chestnut, Dick Emberson, Don Fink, and some others.

I now have only a vague recollection of attending various conferences and meetings around the southeast, including Miami, Canaveral, Louisville, Evansville/Owensboro, Nashville, Knoxville, Atlanta, Charlottesville, New Orleans, and Winston-Salem sections. In my opinion, the Charlotte Section was most outstanding. Southeastcon 72 was in Knoxville and Southeastcon 73 in Louisville. I believe I enjoyed Louisville most because of the excursion on the Louisville Belle, the afternoon at Churchill Downs, and the warm hospitality of the Louisville Section.

Finally, I wish my report could be more positive. I am frequently appalled at what appear to be the unfortunate results of the new direction IEEE took during my term of office. I am a firm believer that it is the engineering expertise which will provide growth and make our profession great. To attempt to achieve great things by invoking our will on society, industry, and government simply because we represent large numbers does not seem to me to be the right approach. I hope that in the next century the IEEE will devote more of its resources toward achieving the highest standard of professional engineering among its members.

*Grove F. Hausman*

REGION 3 DIRECTOR (1970-1971)

SEYMOUR CAMBIAS, JR.

Target Technology, Ltd.

Malvern, Pa.

(formerly with New Orleans Public Service, Inc.)

Upon reflection it is difficult to believe that it was so long ago we worked together for the IEEE. My memories of those two years tend to be obscured--blurred with the following three years as Technical Director, Regional Vice President, and Secretary of the Institute.

As the region is geographically large, for the 1970-71 term we organized Region 3 into areas with an Area Chairman responsible to the Section Chairman in his geographical part of the Region. The Area Chairman then included Dr. Hugh S. Landes (Area 1), John C. Stuart (Area 2), Robert S. Duggan (Area 3), Dr. Joseph Weil (Area 4), Dr. Charles H. Weaver (Area 5), and David Buckworth (Area 6). Ed Freitag, now deceased, was Secretary with strong support also from W. L. Sullivan, H. P. Weber, and perhaps most importantly, Jr. Past Director Bob Elliott, my predecessor as Director for the Region who supplied enthusiasm, council, influence, and anything else necessary to help us to make things happen. In passing, in my judgment, he has done more for that Region than anyone I know. If there is still annual recognition for a Region 3 member, Bob is certainly most deserving.

Two meetings each year were held for Section Chairmen and Regional Officers. One for indoctrination and organization, the second for evaluation, encouragement, and election. It was a happy, enthusiastic, hardworking time as we tried to get more members, have more and better section meetings, and achieve an effective Regional Meeting. The Regional Student Meeting was held in Gainesville, Florida in 1970 and in Charlottesville, Virginia in 1971. We also sponsored a group flight to the first Eurocon Meeting of the IEEE for Region 3 members...It was a resounding failure!

Although Lockheed may have had some problems about that time, the economy was generally pretty good with a fine growth in manufacturing, energy usage, and communications.

I think we did introduce a lot of people into Regional and, subsequently, Institute responsibilities. I did ensure that Region 3 was well represented in all facets of the Institute with good men. If I were to single out one thing we did best, I would say it was to exercise this influence from Region 3 in Institute affairs, so that our good, conservative point of view was heard and understood.

In 1973 I declined nomination for the Presidency of the Institute as I had just moved to the Philadelphia area in a new position. I did, however, remain on the Board and its Executive Committee in the far less demanding job of Secretary.

I still have fond memories of the hard work and good times we had in Region 3. In comparison things today, even the same things, seem ordinary and even depressing in their lack of verve. Perhaps this will change in Region 3.

A handwritten signature in cursive script, appearing to read "C. Buck".

REGION 3 DIRECTOR (1968-1969)

ROBERT G. ELLIOTT

Southern Bell

Atlanta, GA

The late '60s found a healthy ferment in Region 3. Electronics was becoming recognized as the industry of the future, and Region 3 was steadily growing.

The need to better organize and manage the region became evident. In order to improve the contact between the regional officers and the grass roots members, the idea of an area chairman was conceived and implemented on an experimental basis with the active support of Jim Mulligan, who was then Vice President of Regional Affairs. Bob Duggan served as a "guinea pig" area chairman and helped get this concept off the ground. This early use of area chairmen has led to the growth of State Councils and the efficient Region management since that time.

We also participated in several meetings in Atlanta, helping to promote the formation of the IEEE Regional Activities Board (RAB). The need for better long range planning -- another facet of management -- also became evident. The Policy and Planning Committee under RAB was another outgrowth of this ferment.

The interest and support of many individuals helped promote this activity, but in particular I'd like to mention Jim Mulligan, Bob Tanner, and Emily Sirjane from IEEE, Chuck Cambias from Region 3, and Sully Sullivan, Zeb Burnett, John Davis, Bob Duggan, and Joe Dechovitz from Atlanta.

Those were exciting times for me, and I have been continually impressed with the caliber of the people from Region 3 who have contributed so much to IEEE.

*Bob Elliott*



REGION 3 DIRECTOR (1966-1967)

RUFUS G. FELLERS

University of South Carolina

Columbia, SC

I have been digging through my files and have failed to uncover much material as my office has been moved several times, but I have recorded a few more or less memorable items.

- o The Region 3 Meeting in 1966 was held in the Marriott Motor Hotel, Atlanta, Georgia April 11-13. I have enclosed a number of photographs.
- o The Winter Power Meeting was held in New Orleans, Louisiana. A first for Region 3.
- o The several sections in North Carolina were joined in the first formally organized Council, the Council of North Carolina Sections.
- o The Region 3 Meeting in 1967 was held in the Heidelberg Hotel, Jackson, Mississippi April 17-19. This is the first and only time of a Region 3 Meeting in that location.
- o The IEEE Board of Directors planned to meet in the Cape Canaveral area, the first time the Board met in Region 3. The meeting did not occur until the following year.
- o My efforts to get the Puerto Rico section included in Region 3 proved fruitless. This would have broadened the visitation responsibilities of the Director.
- o By some strange coincidence my official visits to sections in South Florida and on the Gulf Coast occurred in January and February.
- o I shall look forward to seeing the results of this historical document.

*Rufus*

REGION 3 DIRECTOR (1964-1965)

JOSEPH WEIL

University of Florida

Gainesville, FL

(Editor's note: Dean Weil passed away in 1977, but his illustrious record is an outstanding record of achievement. He was a Fellow of the AIEE and served as chairman of the Florida AIEE Section in 1925, and his honors and achievements cover several pages. His obituary from page 1 of the Gainesville Sun of November 30, 1977 is included herewith).

# Former UF Dean Weil Dies at 80

Dr. Joseph Weil, dean emeritus of the University of Florida's College of Engineering who has been called the "father of engineering in Florida," died in Franklin Lakes, N.J. of a sudden illness Tuesday. He was 80.

Dr. Weil, who came to UF as an instructor in 1921 and served as dean from 1937 to 1963, apparently fell ill while visiting relatives in New Jersey. Since 1970 he had been a special assistant to the president of Florida Institute of Technology in Melbourne, where he lived with his wife, Cyrille.

He will be buried here today in the B'nai B'rith Cemetery, following services at the Johnson-Hayes Funeral Home at 4 p.m.

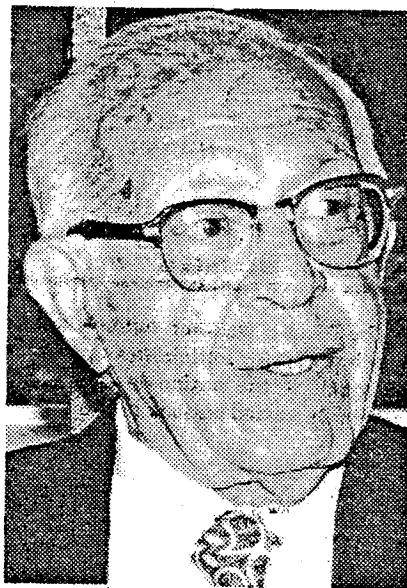
Called the "father of engineering in Florida," by former Gov. Leroy Collins, Weil founded the college's multi-million dollar Engineering and Industrial Experiment Station — which now ranks ninth in the nation in attracting research grants — and pioneered radar tracking of hurricanes during World War II.

"He was the person who laid a strong foundation on which we built this college," said Engineering Dean Wayne Chen, who was brought to UF by Weil in 1952 as a young assistant professor.

Chen called Weil "a man who had a vision years ahead of the rest of us," and gave him the credit for recognizing early the importance of environmental engineering, and for bringing to UF the state's first nuclear reactor.

Weil returned to UF last year to receive a doctor of engineering degree during UF's summer commencement exercises. That ceremony took place across the street from the College of Engineering's main building, which bears his name, Weil Hall.

Born in Baltimore in 1897, Weil attended the Baltimore Polytechnic Institute, and received his bachelor's degree from Johns Hopkins University in 1918, and his master's in 1926 from the University of Pittsburgh.



**DR. JOSEPH WEIL**

**"Father of Engineering in Florida"**

Starting at UF in 1921 as an instructor in electrical engineering he rose through the ranks to become dean in 1937. Following his retirement as dean in 1963, he continued at UF as a professor of biomedical engineering until 1966.

Weil then served as provost of New York Institute of Technology from 1966 to 1969 before returning to Florida to accept the post in Melbourne.

His popularity with state engineers and legislators was such that upon his retirement, the Florida Legislature declared Oct. 23, 1963, as "Joseph Weil Day."

The Florida Engineering Society Journal last year credited Weil as the person "responsible for awakening the state to the peace-time potential of atomic and nuclear research."

He was a member of the B'nai Israel Synagogue of Gainesville and of Temple Beth Shalom of Satellite Beach.

Weil is survived by his wife, Cyrille; a son, Dr. Marvin Weil, of Los Angeles; and three grandchildren.

REGION 3 DIRECTOR (1963)

JOHN W. DAVIS

Southern Bell T&T Company

Atlanta, GA

I appreciate the opportunity to be of any service I can to the memory of AIEE and IEEE. My activities in the Institute, from about 1946 to 1965, were some of my happiest years. At 84, and 19 years from active participation, it will take some time for me to run this one through my head and files.

One of the more interesting activities was the time I spent working closely with Warren Chase to accomplish the combining of AIEE and IRE to form IEEE. If we had not succeeded in accomplishing this combination, I fear that we may have developed resistance from industry over the dual memberships of many of our members, and the expense of contributing to both organizations.

My files are woefully lacking in the things which would be of interest to your committee, except for the eight pictures which I turned over for delivery to you. Unfortunately the pictures were not identified as to personnel, location, or occasion at the time they were taken. I met separately with W. L. Sullivan and W. C. Burnett to try to fill in this information. We were only partially successful as to personnel, and totally lacking as to location and occasion. In addition they were for both AIEE and IEEE meetings and we were unable to separate them. I hope they may be of some help to you.

The remaining few items in my files consist largely of correspondence between Ben V. Martin, then chairman of the awards committee, and me relative to pending awards.

I feel that my efforts in helping to accomplish the amalgamation of AIEE and IRE to form IEEE were not only a very interesting operation, but probably helped prevent a revolt on the part of industry in supporting the separate organizations. I feel that the combined organization can avoid duplication of effort and accomplish much more than by working separately.

In unity there is strength. Chief Sitting Bull taught the U. S. Cavalry that lesson at the battle of The Little Big Horn, by tricking General Custer into dividing the Seventh Cavalry into two groups and proceeding to massacre the general and his group.

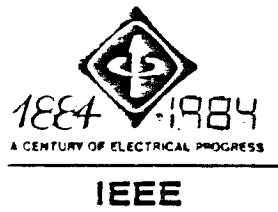
I believe that I accomplished a great deal in promoting the interest of industry in the institute, which prior to that time in our area had rested too heavily in the academic institutions.

On a visit to the Section in which Cape Canaveral is located, the Section Chairman, Richard K. Snelling, who is still an active member and one of our vice presidents, had arranged the Section meeting to coincide with the launching of one of the rockets, and had also arranged for a guided tour of the Cape at the scheduled time of the launching. We were ushered into the reviewing stand just before the launching. To us it was an awesome sight. But it had become so commonplace to the people on the Cape that I actually saw people on the adjacent street walking away from the launching fail to turn around and watch the takeoff. As an added attraction he had arranged a tour of the former Nelson Rockefeller's yacht, a converted PT boat, which was anchored in the bay.

I am particularly grateful to Ben V. Martin, Robert G. Elliott, Elwyn G. Riley, Carlyle Woodruff, W. C. Burnett, Ben Dasher, W. L. Sullivan, Robert S. Duggan, Jr., and several other Lockheed-Georgia people, whose names I am unable to recall for the moment, for their valued assistance in my work with AIEE and IEEE.

One other thing of interest which Mrs. Davis and I were privileged to attend, representing the Institute, was the presentation in Washington of the Hoover Medal to President Dwight David Eisenhower.

A handwritten signature in dark ink, appearing to read "Joseph", with a long, sweeping horizontal stroke extending to the right.



XI

REGION 3

MEMORIES IN PICTURES

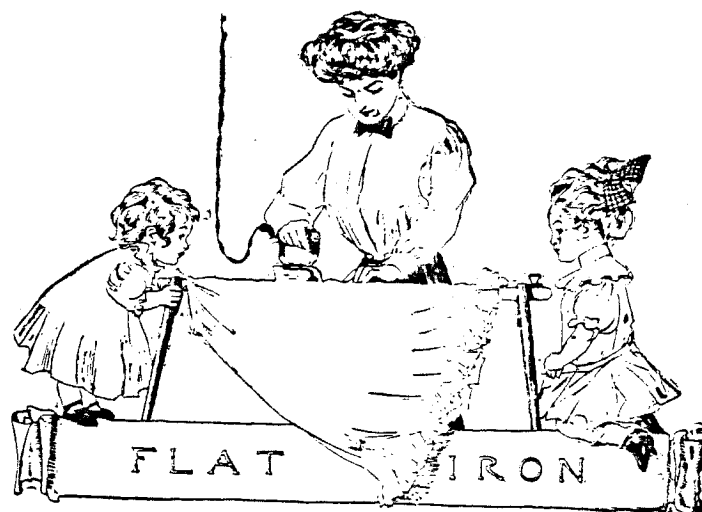


## Breakfast Cooks Itself With Electricity

Put the coffee in the electrical percolator, oatmeal in the cereal cooker, and eggs in the egg cooker—the night before. In the morning turn on the switch—and your whole breakfast will be ready as soon as you are. You should have electric light in your house by all means—those who have it enjoy cooking with electricity.

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### Thousands of Women

use them who prefer to iron little things themselves in their own room, or elsewhere, on short notice. An electric iron once tried is never afterward dispensed with. Why not try one yourself. Ask us for particulars.

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## VICTOR TALKING MACHINES



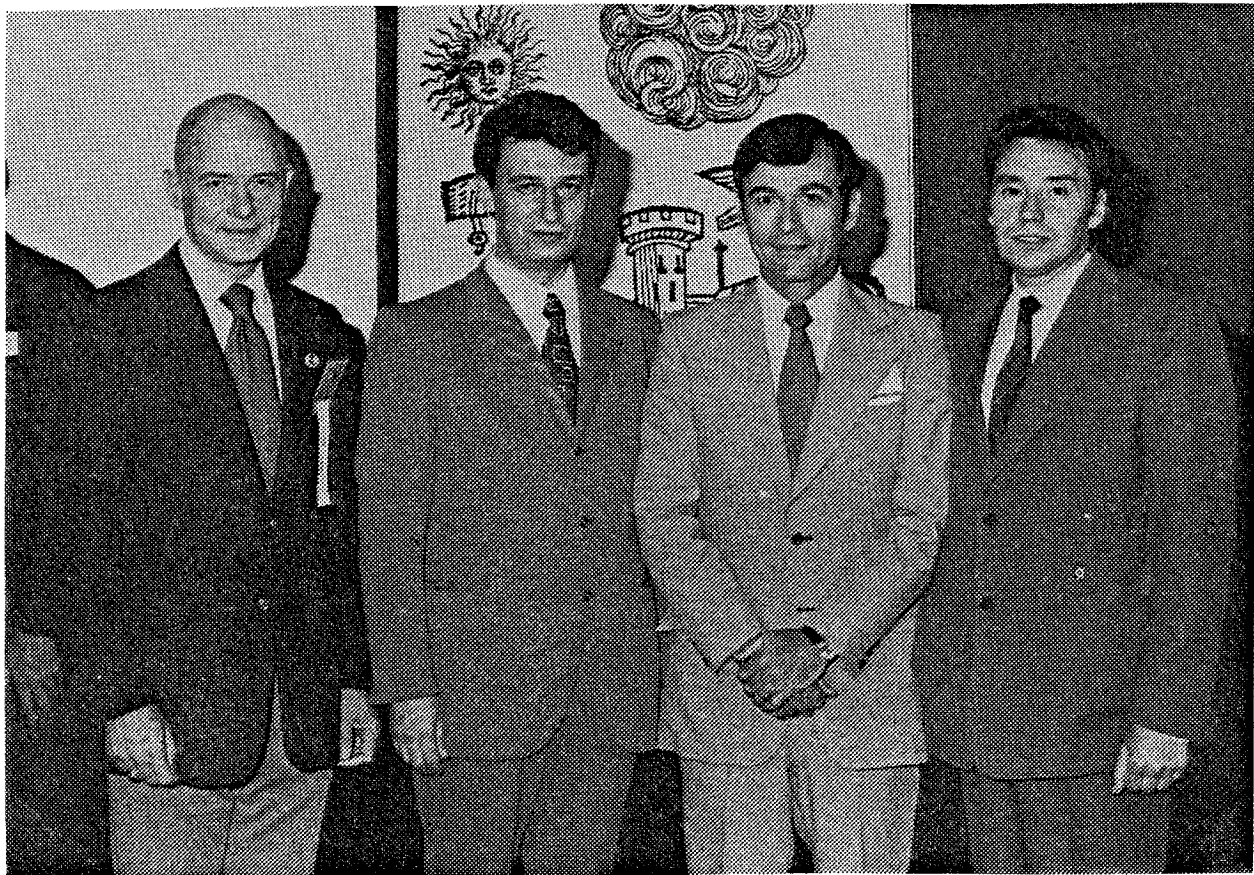
"HIS MASTER'S VOICE"

may be bought from  
us on **VERY EASY**  
monthly payments.

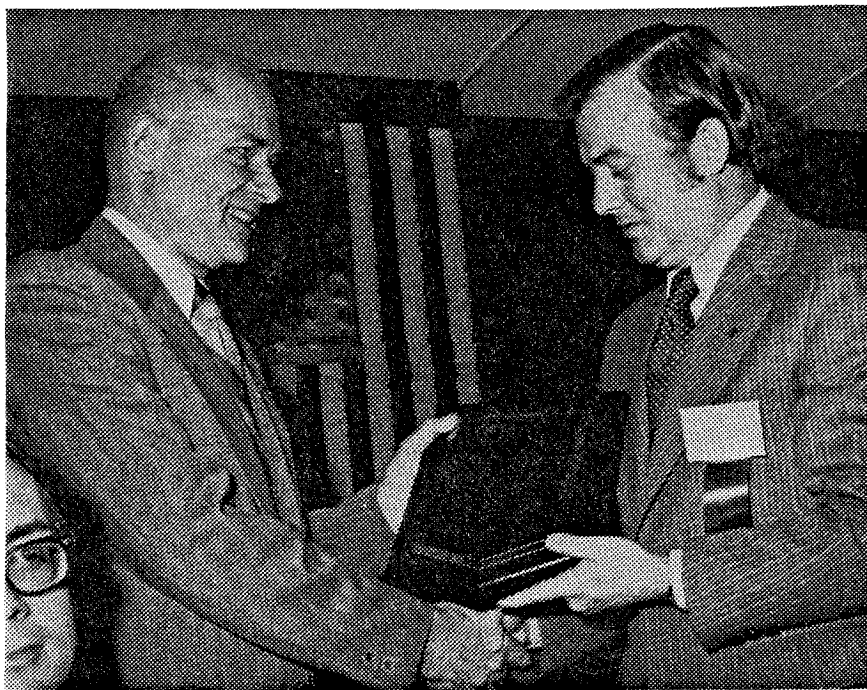
ELECTRICALLY COOLED BOOTHS ON OUR FIRST FLOOR.

**Phillips & Crew Co.**

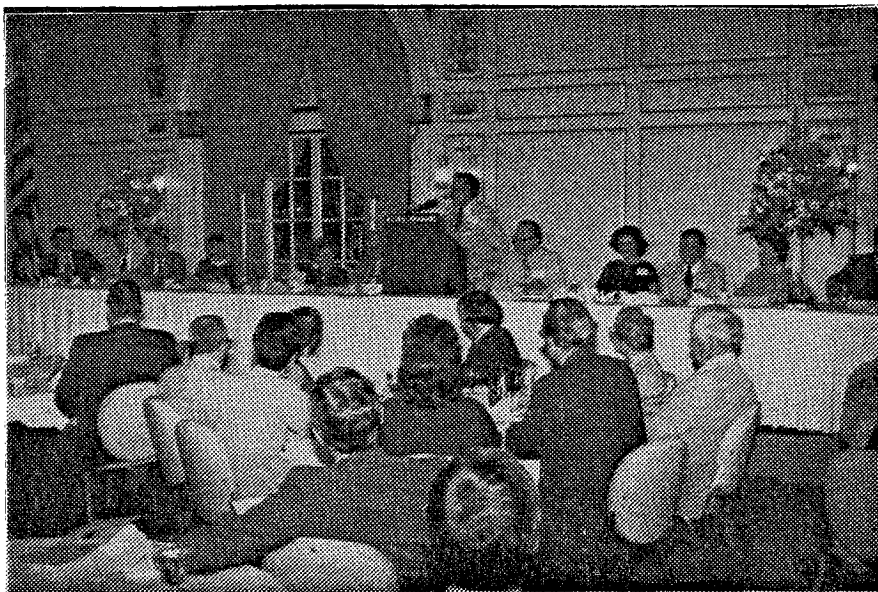
37-39 PEACHTREE ST.



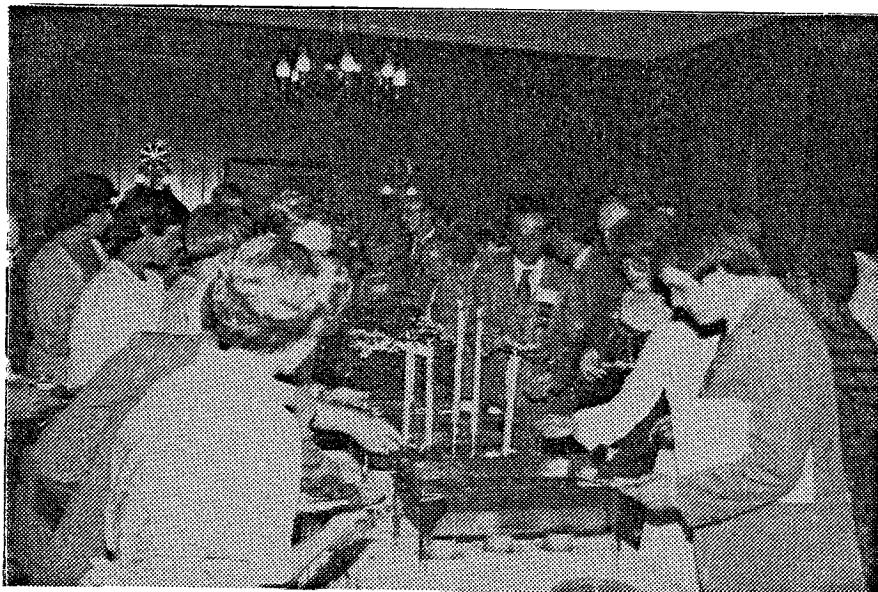
International conferences have been steadily increasing in Region 3. Shown here are (L-R) Robert S. Duggan, Jr. (Atlanta), Prof. Dr. Viktor V. Eremenko (Kharkov, USSR Low Temperature Physics Institute), CAPT John Young (NASA Astronaut), and Dr. Vladimir N. Murzin (Lebedev Physics Institute, Moscow). All were attending the IEEE International Antennas and Propagation Symposium in Atlanta, 11 June 1974.



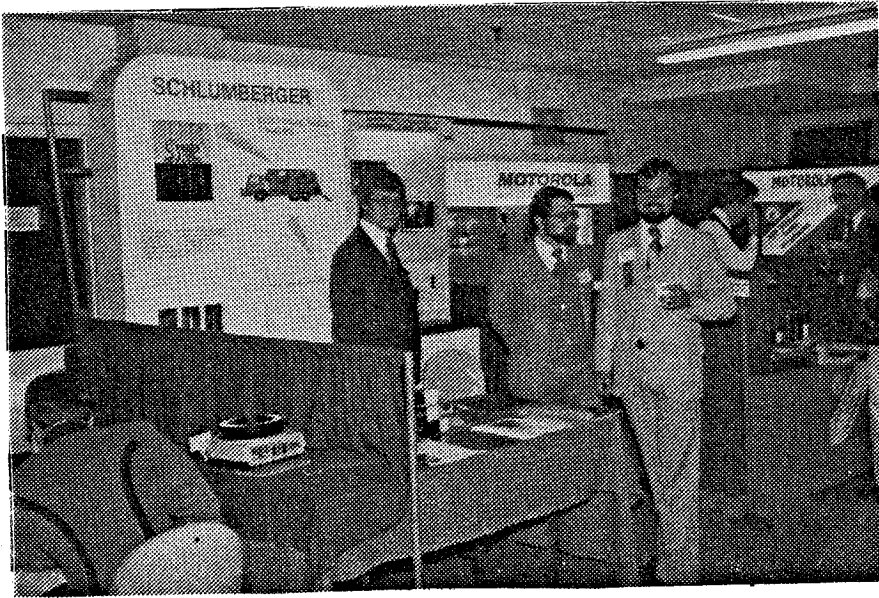
The Annual Awards from Region 3 are highly competitive. Here Dr. Larry K. Wilson, Region 3 Director, presents the 1976 Region 3 Outstanding Engineer Award to Robert S. Duggan, Jr. of Atlanta during Southeastcon '76 at Clemson, S.C.



Regional Director Roy H. Harris addresses the Awards Banquet. Seated at the head table from left to right are Richard O. Claus, Chairman of the Student Conference; (unidentified individual behind flowers); Mrs. Roy H. (Peggy) Harris; President and Mrs. Jerry Suran; Director Harris, standing; Conference General Chairman and Mrs. K. Reed Thompson; Outstanding Service Award recipient and Mrs. Larry K. Wilson.



Early registrants enjoy the Sunday evening reception.

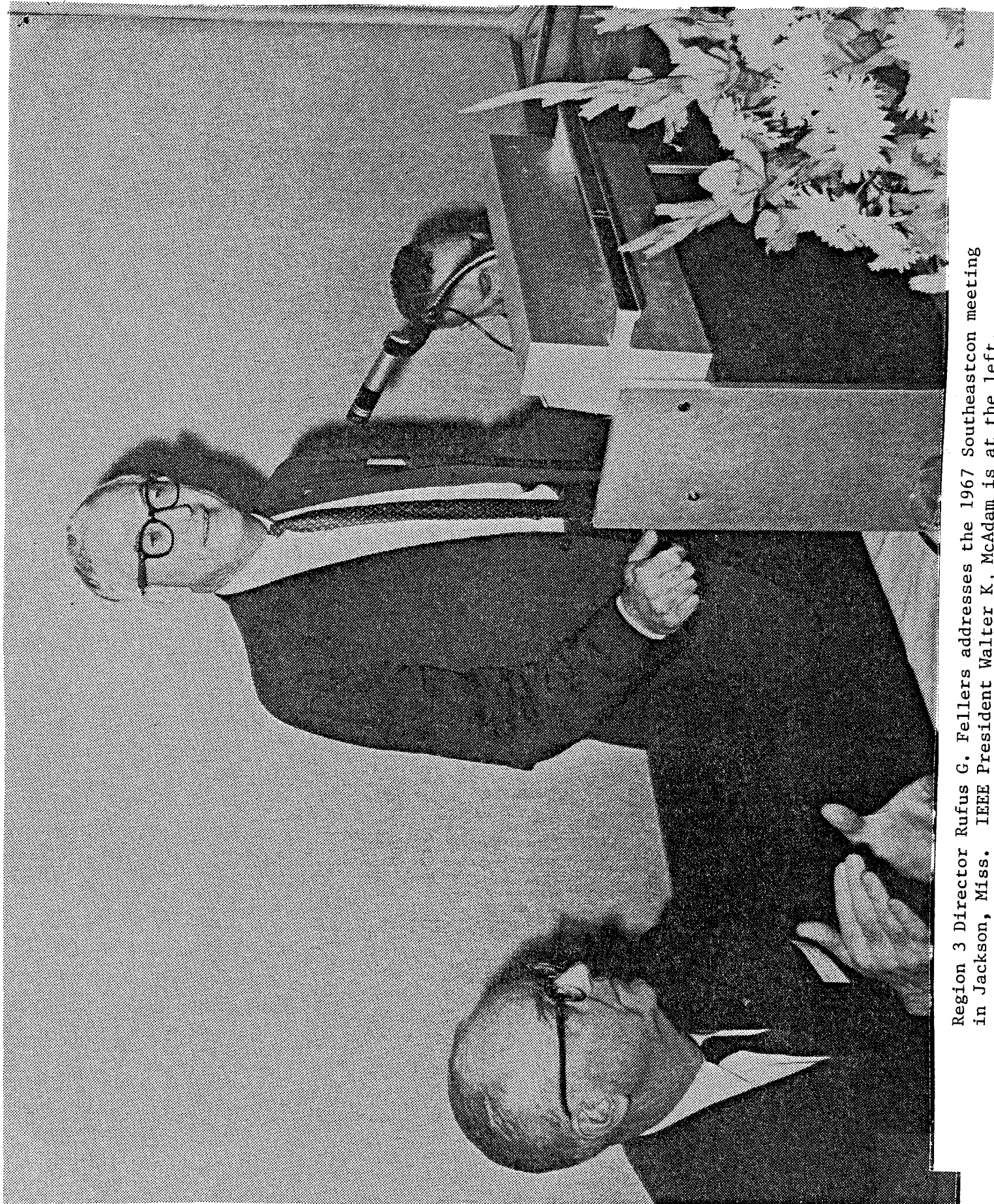


Exhibitors displaying their products and employment opportunities.



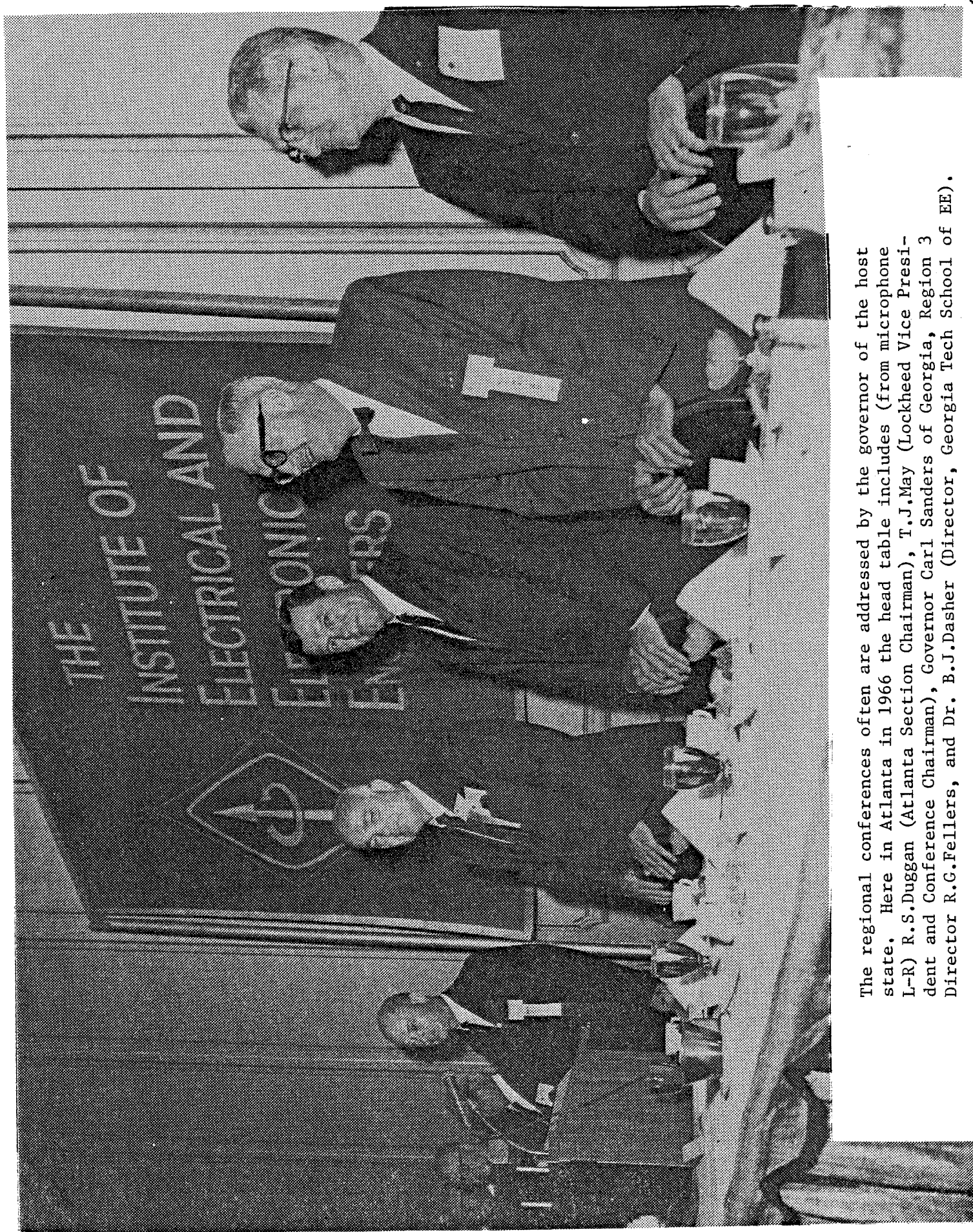
Student solar car race being conducted with artificial "sunlight".



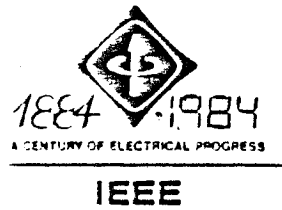


Region 3 Director Rufus G. Fellers addresses the 1967 Southeastcon meeting in Jackson, Miss. IEEE President Walter K. McAdam is at the left.





The regional conferences often are addressed by the governor of the host state. Here in Atlanta in 1966 the head table includes (from microphone L-R) R.S.Duggan (Atlanta Section Chairman), T.J.May (Lockheed Vice President and Conference Chairman), Governor Carl Sanders of Georgia, Region 3 Director R.G.Fellers, and Dr. B.J.Dasher (Director, Georgia Tech School of EE).



XII

REGION 3

THE FUTURE



## THE NEXT 100 YEARS

Looking back over the successes, the growth, and the achievements of the past century, one's first reaction is to extrapolate past trends into the future. This may be appropriate when dealing with gross membership statistics, but in most areas one feels the need to inject a personal perspective when gazing into the crystal ball of the next century.

Region 3 will play an even more prominent role in the IEEE in the years to come. The expansion of engineering schools and the concomitant increase in electronics engineers bodes well for the region. When coupled with the migration of the electronics industry to the "Sun Belt", the southeastern United States is destined to assume a leading role in the management of institute affairs.

As IEEE becomes more transnational, the interchange between the southeastern US, the Caribbean basin, and Central America will see a significant enhancement. As English becomes the recognized language of technology, the older language barriers will be rapidly lowered. As Atlanta, Orlando, and New Orleans become major international air terminals, more international conferences will be held in the southeast. This in turn will attract more international corporations, and the area will see even greater expansion in technology.

The future of Region 3 will not just happen. We in IEEE help to create it by what we do and what we fail to do. Our continuing responsibility is to carefully define what we want that future to be and then to guide the trends to follow the path we have selected. The responsibility is awesome, but our future can and will be bright.



IEEE

XIII

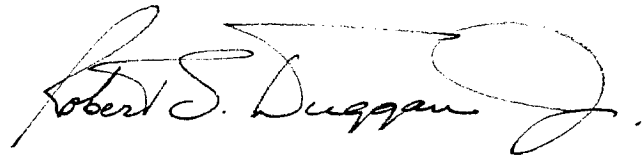
CONCLUSION

## CONCLUSION

This ends this attempt to record some of the significant history of the electrical engineering profession in the southeast. This effort causes one to admire the rapid development of technology over the years, to appreciate the vast contributions of many volunteers in furthering our profession, and to recognize the shortcomings of a document such as this.

Mr. Wade H. Wright, a long-time executive of the Georgia Power Company, sums up the author's feelings as this document is brought to a close:

"As one contemplates the meager beginning of the electrical industry in the late 1800s, its marvelous growth and development through the multiplicity of its uses, and the diversity and universality of its adaptability, he cannot help but experience a deep feeling of reverence and of gratitude for the Mind that conceived and the Hand that created the force and established the immutable laws which govern and control its behavior to the end that, notwithstanding man's ignorance of what it is, it has become one of his most useful servants and benefactors—a feeling closely akin to that which prompted the Psalmist of old to exclaim: "The heavens declare the glory of God and the firmament showeth His handiwork."

A handwritten signature in cursive script, reading "Robert S. Duggan". The signature is written in dark ink and is positioned in the lower right quadrant of the page.



**IEEE**

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