

NO. 9 FEBRUARY 1967

An IEEE management newsletter providing direct communication among Institute Staff, Committees, Groups, and Sections; and covering matters of current importance relating to Institute operations

ELECTRICAL ENGINEERING

FEBRUARY - MARCH. Dominating the calendar year's first quarter, these are "opportunity months" for all Units of IEEE's organization-Groups, Conferences, Councils, Boards, Committees, Regions, Sections, Subsections, Chapters, Student Branches.

Has January-1st turnover in personnel brought you, for the first time, into IEEE's "shirtsleeves muster" which receives "Electrical Engineering" (E. E.)? Good going! To you, carry-over business becomes new business. Add your own enthusiasm and innovations: so IEEE grows.

FRONT PAGE FOR IEEE CONVENTION/EXHIBITION. At New York, Monday-Thursday, March 20-23—"where authors and exhibitors learn and teach." Here is IEEE's noblest annual effort in mass re-education and uplift through ear, eye, and extended hand. Last year's registration: 63,450. Only a little over a month remains for last-minute perfecting of plans by all participating Units. Program: all members receive direct-mail piece, end of January; also see March "Spectrum."

Formula for crash rendezvous: Say: 'Meet you IEEE Hospitality Desk, New York Hilton Hotel, 53rd St. & 6th Ave., 2nd floor Promenade Area, [exact time, day, date]. Failing, after 20 minutes will leave you note on nearby Message Board. Computer-compiled list posted there will carry hotel names furnished by registrants.

Contacts with staff personnel, always a 2-way benefit. Staff assignments divided between headquarters and Convention. Staff names, duties, in latest issue of Spectrum, 4th page from front. Headquarters phone for appointment: PL 2-6800; ask for IEEE and person wanted. To reach headquarters: taxi "345 East 47 at U. N. Plaza." Building is United Engineering Center (UEC); IEEE reception, 10th floor. By bus: north-south subways have Local train exits on 50th St. "50th St. Crosstown" bus going east; east terminus is in front of UEC.

(Note: All names so shown at the end of items in E.FE. are of IEEE staff. Address: IEEE, 345 East 47th Street, New York, N. Y. 10017. Phone: Area Code 212-PL 2-6800.)

GROUPS SHIFT TO CALENDAR YEAR. By action of the Technical Activities Board (TABwhich itself, like BofD, has operated on a calendar year), all Groups which heretofore have had administrative years like July-to-June will phase in on calendar years beginning January 1, 1968. Necessary modifications of Group Constitutions and Bylaws should be submitted without delay for TAB chairman's approval. It is expected that most such Groups will elect either: (1) that the terms of incumbent 1966-67 officers and committees be extended during the remainder of 1967; or (2) that 1967-1968 officers and committees now being elected take office in mid-1967 and serve 18 months.

No changes in Sections or Chapters are involved in this.

YEAR-END RETURNS DUE. All Units would do well to review their obligations to make specified annual reports. An especially important report is the annual Section financial return on forms already provided the Sections, returnable no later than Feb. 15. For Sections in the United States, these statements have to be consolidated in IEEE's Federal Information Return. (Inquiries, W. J. Keyes)



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

DIRECTORS-AT-LARGE		EGIONAL DIRECTORS		ELECTRICAL ENGINEERING is		
Elected by members		Ele	cted by Regional members	published by IEEE, 345 East 47th		
Walter K. MacAdam President Hendley Blackmon Vice President Bernard M. Oliver Senior Past President Secretary William G. Shepherd	1967-69 1967 † 1967 1967 † 1965-67 1967 1967 *† 1966-68	1 William C. 2 John G. B. 3 Rufus G. I. 4 David M. 5 Carl R. W. 6 Stanley F. 7 Allan B. C. 8 Robert C.	rainerd Fellers Hodgin ischmeyer Kaisel Oxley	1966-67 1967-68 1966-67 1967-68 1966-67 1967-68 1966-67	Street, New York, N.Y. 10017, for purposes set forth in the masthead. Copies are distributed to principal officers of major IEEE units such as Groups, Sections, and Committees, and to the Institute secretarial staff and Directors.	
Junior Past President 5 Floyd H. Knapp 6 John B. Russell 7 Edwin L. Harder 8 John G. Truxal 9 Harold Chestnut 10 Edward E. David, Jr.	1967 1965-67 1965-67 1966-68 1966-68 1967-69	Alfred N. Go also Editor Haraden Pra Elgin B. Rob	r Emeritus tt	20 min posted from 1	A standing invitation is extended to all organizational units to submit ideas and comments of probable general interest. Address: 1. S. Coggeshall, Editor "E.E." 1EEE, 345 East 47th Street	
Elected by Assembly 1 Seymour W. Herwald Vice President Technical Activities 2 F. Karl Willenbrock Vice President Publication Activities 3 John V. N. Granger Treasurer 4 Guillermo J. Andrews Director Region 9 5 Shigeo Shima Director Region 10 6 Robert W. Gillette 7 A. U. Lamm 8 J. Earl Thomas	1967 *† 1967 *† 1967 *† 1967 *† 1967 *† 1967 *† 1967 * 1967 * 1967 1967 * 1967 1967	MacAdam Oliver Shepherd Blackmon Herwald Willenbrock Granger Knapp Chestnut	Nominations & Appointr Education Admission & Advanceme Intersociety Relations Sections Membership & Transfers Student Branches Technical Activities	ments nt	New York, N.Y. 10017 (USA) ELECTRICAL ENGINEERING is a registered trademark owned by The Institute of Electrical and Electronics Engineers, Inc.	

Professional Relations

*Elected by the 1967 Assembly to these positions. †Corporate Officers.



IEEE SPEAKERS DIRECTORY

REGION 1			Date
Section	Speaker and Address	Title of Speech	Presented
Elmira-Corning	Richard A. White Westinghouse Electric Corp. Elmira, N. Y.	"Lunar Camera Tube"	12/12/66
	Joseph Jensen, c/o R.A. White 920 Grand Central Ave. Horseheads, N.Y. (Section Secy)	"The St. Louis Arch"	12/9/66
Emporium-Ridgway	Dr. Robert M. Bowie United Engineering Center 345 East 47 Street	"United Engineering Information System"	12/12/66
Ithaca	New York, N.Y. Prof. S. J. Mason Mass. Institute of Technology Cambridge, Mass	"Progress on a Reading Machine for the Blind"	12/6/66
Mid-Hudson	Mr. Walter K. MacAdam A. T. & T. Co. 195 Broadway New York, New York	"The Relationship Between Information Retrieval and Man's Ability to Absorb"	1/17/67
Mohawk Valley	Donald R. J. White, President White Electromagnetics, Inc. Rockville, Maryland	"Electromagnetic Compatibility - Its Definition, Problems and Future"	1/10/67
New Hampshire	Raymond E. Isaacson, Mgr. G. E. Product Dev. Engrg. Bridgeport, Conn.	"Cross-Linked Polyethylene Insulation"	12/14/66
	Edward K. Bullock, Mgr. G. E. Applications Engrg.	"Fuel Cells"	12/14/66
	Lynn, Massachusetts		
Providence	Richard S. Austin Naval Underwater Weapons Research & Engrg. Station	"Exploring Autec Depth Aboard Alvin"	12/13/66
	Newport, R. I.		
Rochester	Charles Vaderson, Assoc. Dir. General Dynamics/Electronics	"After Graduation - What?"	12/8/66
	1400 N. Goodman Street Rochester, N.Y.		EHO
Springfield	P. H. Linsley Esterline-Angus Natick, Mass.	"Transducer Inputs for Recording Instruments"	12/5/66
	C. E. Gneere NACON Corp. Cambridge, Mass.	"Sodium Conductors"	12/5/66

9 George R. Town

REGION 1 Continued						REGION 2 Continued			RECTON
Doto	Speaker and Address	Title of Speech	Date Presented			Section	Speaker and Address	Title of Speech	Date Presented
Section Vermont	Leroy Blake	"Silicon Semiconductor	1/9/67	0	0	North Central Ohio	Peter Kyle	"How Computers Affect The	1/12/67
	IBM Process Engineering Essex Junction, Vt.	Processing"					IBM Mansfield, Ohio	Engineer"	
	Dr. Wilfrid Roth Dr. Stanley Rush Dr. Charles Taylor	"Electrical Engineering in Medicine"	12/5/66				Cort Hepner IBM Mansfield, Ohio	''Computer Programs and Computerized Graphics'	1/12/67
	Univ. of Vt., E. E. Dept. Burlington, Vt.					Sharon	James H. Davis (Address Unknown)	"Current Developments in Shenango Valley Area"	1/11/67
Worcester County	Thomas B. Foley Applications Engineer Simplex Wire & Cable Co. Cambridge, Mass.	"New Polyethylene Applications Through 138 KV"	1/17/67				Contact Section Secretary: Kevin. F. Friedrich 102 Euclid Ave. Sharon, Pa. 16146	201 Power B Chattanooga.	
	Harold A. Melden, Jr., Dir. Commercial & Indus. Dev. Worcester Gas Light Co.	"On-Site Power Generation"	12/13/66				Charles B. Heffron Westinghouse Electric Corp. T. V. Radio Division Route 27	"Color T. V."	12/14/66
REGION 1 - SUBSECT	Worcester, Mass.						Metuchen, New Jersey	nge W _{n.} , grand oncomics, and sease is V saparane T neT , allivane A	
Adirondack	M. E. Clark, Mgr. Integrated Circuit Engrg.	"Processing of Silcon Integrated Circuits"	1/10/67			Susquehanna	Charles A. Taylor, Mgr. of Reliability Assurance Advanced	"Unmanned Exploration of Mars"	1/3/67
	G. E. Semiconductor Products Syracuse, N. Y.	Cambridge, Mass	1/10//7				Interplanetory Projects G. E. Company Valley Forge, Pa.		
New London	Dr. R. Grant G. C. Optronics, Inc. Ann Arbor, Mich.	"Active Sonar Transducer Analysis by Interference Holography"	1/10/67	0	0		Robert J. Buzzard Project Leader	"Thermionic Converters"	12/6/66
	John P. Ermatinger Electric Boat Div.	"Speed Control of Motors"	12/14/66				RCA Lancaster, Pa.	"Integrated Circuits"	12/12/66
St. Lawrence	Groton, Conn. Richard Pratt	"Aerospace Digital Computers"	12/14/66			West Virginia	Walter Senges Sylvania Electric Products, Inc. Waltham, Mass.	Integrated Circuits	12/12/00
International	IBM Owego, N.Y.					REGION 2 - SUBSECTIONS			
REGION 2 - SECTION	ons (alleo substitutions)					Annapolis	James McGettigan Western Electric Co. Cockeysville, Md.	"Telephone Switching System"	12/7/66
Cincinnati	Harold Whitmore G. E. Large Lamps Div. 990 Nassau Street	"Lighting Your Home for Christmas"	12/14/66			Eastern Shore	Walter Michalke (Address Unknown)	"Super Highways of Power"	12/6/66
Delaware Bay	Cincinnati, Ohio Dr. W. Stanton Kip	"Space Medicine"	12/5/66				Contact Section Secy.: Albert A. Smith, Jr. Box 76, RFD 2		
	G.E. Space Technology Center Valley Forge, Pa.					Upper Monongahela	Annapolis, Md. D. H. Griffith, Mgr.	"The NORAD Story"	12/8/66
Erie	Lee Straw Technical Services Div. Pennsylvania Electric Co.	"Electric Heat Calculations and Installation"	12/7/66			Central Jawa Council Side	Chesapeake and Potomac Tel. Co Fayette Street Morgantown, West Virginia	Clessronics in Weather	12/18/60
	Johnstown, Pa.					REGION 3 - SECTIONS	United States Weather Bureau Des Maltines, Inwa		
Johnstown	Frederick Michel, V.P. Data Consultants, Inc. Johnstown, Pa.	"Practical Computer Application to Engineering Problems"	12/20/66	0	0	Alabama	George Miller G. E. Utilities Applications Div Birmingham, Alabama	"EHV Direct Current Transmission"	1/9/67
	1907 Chamber Common Com					Atlanta	Dr. B. E. Keiser, Mgr. Systems Support Section RCA Service Co. Kennedy Space Center, Fla.	"Spaceport Cummications, Present and Future	1/16/67

	Ω 1 Λ11	Title of Speech	Presented
Section	Speaker and Address	Title of Speech	
Central Virginia	S. Wagner; M.W. Willis Power Station Design Virginia E. & P. Corp	"VEPCO Atomic Reactor Power Station"	12/1/66
	Richmond, Va.		
Chattanooga	L. B. Marks, Moderator P. S. Button, F. Chambers, F. Datres and T. D. Hardin (Addresses unknown) Contact Section Secretary:	Panel Discussion: "A Look Into the Future for Underground Distribution and Transmission"	12/6/66
	R. C. Crawford 203 Power Building Chattanooga, Tenn.		
Daytona	Murray Gunsberg Nimbus Satellite Project General Electric Co.	"Nimbus Satellite Operation"	12/8/66
	Philadelphia, Pa.		
East Tennessee	Aubry J. Wagner Tennessee Valley Authority Knoxville, Tennessee	"The Tennessee Valley - Valley with a Future"	1/10/67
		SALE SALES OF STREET	12/13/66
	Dr. Milton Bailey Sprint Project The Martin Co. Orlando, Florida	"Design of Missile Control"	12/13/00
	R.S. SHEERWALL AS		
Eastern North Carolina	Louis B. Early COMSAT, Economic	"The COMSAT Story"	12/9/66
	Analysis Dept. Washington, D.C.		
S. Lawrence	Frederick Roberts	"Extra High Voltage Direct	1/10/67
Evansville-Owensboro	General Electric Co. Indianapolis, Indiana	Current Transmission"	
	Teiaphone Switch		
	Dr. R. G. Fellers College of Engineering	"Trends in Engineering Education"	12/13/6
	University of South Carolina Columbia, South Carolina		
Jacksonville	Eugene C. Nalle City Hall, Room 500 City of Jacksonville	"The Engineer and Mathematics"	12/12/6
	Jacksonville, Fla.		
		tora it. emoyatti	

Dr. B. E. Keiller, May. Systems Support Serben. RCA Service Co. Ketmody Space Contest, Fla. 0 0

0

REGION 3 Continued			KEGION 4
Section	Speaker and Address	Title of Speech	Date Processed
MANIASI -enerT epsilo	L. E. Goff	"Fundamentals of Static Relays"	12/12/66
Memphis	Sr. Application Engineer		
	General Electric Co.		
	Philadelphia, Pa.		
enter, Fontenalle 12/Lacas	Robert Petrina	"Advances in High Frequency	1/5/67
Nashville	Alladin Industries	Lighting"	
	Nashville, Tennessee	Toroine Generatore	
		urr it will I Flying Objected	12/1/66
	Joseph Thompson	"Unidentified Flying Objects"	12/1/00
	Special Agent, Insurance Co. Northwestern Mutual Life Ins. (Co.	
	Nashville, Tennessee	Alint, Michigan	
	Most E. Aceser Jr.	Continue C. W. A.	1/12/67
Oak Ridge	Fred Brown	"Recent Advances in Computer	1/12/01
	Systems Engineer	System Application'	
	IBM Knoxville, Tenn.		
	Knoxville, Telli.		honest disease.
	R. B. Korsmeyer	"Energy, Economics, and	12/8/66
	Oak Ridge National Laboratory	Edacity"	
	P. O. Box X		
	Oak Ridge, Tennessee		
Palm Beach	Henry Peerson	"High Fidelity Sound Demon-	12/15/66
Faini Beach	Audio Hi-Fidelity	stration"	
	West Palm Beach, Fla.		
REGION 3 - SUBSECTIONS			
Columbia	Hidieo Sao	"Some Mathematical Aspects of	12/12/66
0014111010	University of South Carolina	Speech Compression"	
	Columbia, South Carolina		
	Ken Krapf	"Application of Area and	12/13/66
Jackson	Illuminiating Engineer	Industrial Lighting"	
cording at Home" 12/8/66	General Electric Co.		
	Memphis, Tenn.		
	Bill Long	"Construction and Operation of	12/19/66
Paducah	Chief Eng'r.	Loud Speakers"	
	CTC Company		
	Paducah, Kentucky		
			Fox Valley
REGION 4			4
Central Indiana	Frank Edwards, Author	"UFO-Fact and Fancy"	1/12/67
	(Address Unknown)		
	Contact Section Secretary: Charles E. Ohlman		12720/65
		STATE	
	Indianapolis, Ind.		
	Dr. C. E. Lamoureux	"Electronics in Weather"	12/15/66
Central Iowa	Meteorologist In Charge	Project Engly.	12, 14/06
	United States Weather Bureau		
	Des Moines, Iowa		
***************************************	W. Stan Curtiss	"Electronic Controls & Testing	- 1/5/67
Illinois Valley	D :	Gas Turbines"	
- Things Done 12/9/66 Come	Caterpillar Tractor Co.		
Selection	East Peoria, Illinois		

REGION 4 Continued									
Date	Caralan and Addana	Mile of Council	Date			REGION 5 Continued			Date
Section	Speaker and Address	Title of Speech	Presented			Section	Speaker and Address	Title of Speech	Presented
Illinois Valley - Cont.	J. R. Buckhart Application Engineering General Electric Co. St. Louis, Missouri	"Extra High Voltage Trans- mission"	12/1/66	0		Kansas City	John R. Brassfield Associate Engineer Midwest Reæarch Inst. Kansas City, Mo.	"Considerations in the Design of Large Paraboloidal Antenna Feeds and a Survey of Inter- esting Design Approaches"	1/12/67
Nebraska	James Malkowski Dir. of Fontenelle Forest Omaha, Nebraska	"A Nature's Center, Fontenelle Forest"	12/16/66				A. S. Braytenbah Control Engineer Westinghouse Electric Corp. Lester, Penna.	"Electro-Hydraulic Control System for Large Steam Turbine Generators"	12/12/66
Northeast Michigan	John F. Christian Assistant Director Longway Planetarium Flint, Michigan	"Results of Todays Space Efforts and Their Effects on our Future"	12/15/66			Ozark gold arenoo ao di	Jimmie Delle Caldwell (Address Unknown) Contact Section Secretary:	"Wheel of Fortune"	12/15/66
Rock River	A. E. Campbell Toll and Special Services Illinois Bell Telephone Co. Rockford, Illinois	"Communications: Prologue to Tomorrow"	12/9/66			Econope Mania at atmosph	Hugh H. Brewer, Jr. Southwest Electric Power Co. Fayetteville, Arkansas 72701	"Store and Forward Data	1/10/67
South Bend	Robert O. Noyer, Dir. Product Repair Collins Radio	"The Well Rounded Square"	12/1/66			Shreveport	R. W. Kettlety Dir. of Engrg. UGC Instruments, Inc. Houston, Texas	Handling"	1/10/07
West Michigan	W. R. Hoffmeyer	"Digital Computers - Principles	1/12/67				Thomas N. Hand Electric Utility Process Automation Engineer	"The Future of Process Automation"	12/13/66
	Performance Design Dev. G. E. Co., Holland, Mich. M. Popowniak, G. E. Co. Detroit, Mich.	and Applications in Industry";					General Electric Co. Dallas, Texas		16/0/60
	Robert Clark Morton Manufacturing Co.	"Numerically Controlled Machine Tools"	12/8/66	0		South Plains	B. J. Hood Southwestern Bell Tel. Co. Forth Worth, Texas	"Lasers" E. W. Thomas Chief Tracy F	12/13/66
REGION 4 - SUBSECTIONS	Muskegon, Michigan					West Central Texas	Ron Henderson Sales Representative Allis-Chalmers Mfg. Co.	"Beautility Trends in Electric Generation, Transmission and Distribution"	1/9/67
Burlington	Jack Foster G. E. Audio Products Decatur, Illinois	"Video Tape Recording at Home"	12/8/66				Abilene, Texas Jacques Van Onselen	"A South African's Impressions	12/6/66
Calumet To nother 1900 bear	Donald W. Ruby 178 Hillcrest Court Roselle, Ill. 60172	"Micro-Miniaturization"	1/9/67				Rotary Foundation Fellowship Student Port Elizabeth, South Africa	of Our Country"	
Fox Valley	Edgar R. Bruchlacher;	Panel Discussion:	12/7/66			REGION 6			
Tox variey 1/12/67 Tancy attlementant	N. King; R. Loewe, Sr.; J. Ranheim; E. Walkley (Address Unknown)	"Arc Interruptions in Power Circuits"	12/1/00			Alamogordo-Holloman	Brian Fitzgerald; Dr. Jack Peters Sylvania ARL Waltham, Mass.	"Automatic Laser Tracking System"	12/7/66
	Contact Subsection Chairm Leonard A. Bateman 4525 Elm Street Downers Grove, Ill.	Charles E. Ohima Charles E. Ohima 3035 Radford Dri indianapolis, Ind.			3	Boise	Arnold Bahr Idaho Power Co. Boise, Idaho	"Sand Box Demonstration of Soil Corrosion Measurements"	12/14/66
Racine-Kenosha ************************************	Dave Bowers Project Eng'r. G. E. X-Ray Milwaukee, Wisc.	"Electronics On and Beneath the Skin"	12/7/66	•		Orange County	Dr. Gene La Fond U. S. Naval Electronics Lab. San Diego, Calif.	"Oceanographic RSH Using Submersibles"	12/14/66
REGION 5 - SECTIONS Arkansas	Lee Reaves, Dir. Arkansas Educational TV Commission Conway, Arkansas	"Educational TV - Things Done and Things to Come"	V stonIMI 12/9/66	C		Sacramento	Maurice B. Andrew Head of Nuclear Unit Dept. of Water Resources State of California Sacramento, Calif.	"Department of Water Resources Plans for Nuclear Power Plants	

REGION 6 Continued					DECION 7. Continued			
Section	Speaker and Address	Title of Speech	Date Processed		REGION 7 Continued Section	Speaker and Address	Title of Speech	Date Presented
banoused	address Triteroff Speec	A True True Section	10/11//		Carlona N. R			I NODE
Spokane	William Greer	"Atomic Power, Past, Present	12/1/66		Niagara International -	W. T. Quirk	"Film on Bell's Products with	12/1/66
	District Utility Engineer Westinghouse Electric Corp.	and Future"	Kombas Cit		Cont.	Field Test Services	Briefing on Highlights"	
	Box 7965					Bell Aerosystems Co. Wheatfield, N. Y.		
	Portland, Ore.					wheatheid, N. 1.		
					Northern Alberta	L. M. Hovey	"Generation and Transmission	1/12/67
Wenatchee	James Click;	"The Underground Electrical	12/6/66			Consulting Eng'r.	Aspects of the Phase I Nelson	
	Gerald Copp,	Installation at Mission Ridge"				Manitoba Hydro	River Development"	
	Chelan County PUD					Box 815		
	Wenatchee, Washington					Winnipeg l, Manitoba, Canada		
	Kyle Younker	"Illustrated Talk on General Con-	12/6/66		Couth and Albanta	L. M. Hovey	"Generation and Transmission	1/13/67
	Chief of Ski Patrol	struction of The Mission Ridge	7,71,100		Southern Alberta	Consulting Eng'r.	Aspects of the Phase I Nelson	1/15/01
	Wenatchee Mountain, Inc.	Ski Area''				Manitoba Hydro	River Development'	
	Wenatchee, Washington					Box 815	400 Ilined Ave., Sen	
						Winnipeg l, Manitoba, Canada		
REGION 6 - SUBSECTIONS								Y MORNIN
	T.1. D. 1.	UN Developments in Light	12/8/66	•	Toronto	Harold Wright	"Color Television"	1/16/67
Eugene	John Forbes (Address Unknown)	"New Developments in Light Sources"	12/8/00	1		(Address Unknown)		
	Contact Section Secy.:	Bources)		Contact Section Secy.:		
	E. Robert Mooney, Jr.					John R. Leslie Ont. Hyd. Dobson Res. Lab.		
	1600 Western Ave.					200 Kipling Ave., S.		
	Corvallis, Oregon					Toronto, Ontario, Canada		
		Wild Value of The Value				NAS & PROPAGATION and		
Reno	William Henderson	"Bell System Science Aids to	12/15/66			E. G. Bainbridge	"Volta River Project - Ghana	12/5/66
	Bell of Nevada	Schools"				Municipal Service Eng'r.	West Africa"	
	160 West First St.					(Address Unknown)		
	Reno, Nevada		and the second			Contact Section Secy. (Above)		
San Joaquin	H. W. Thomson	"USBR - CVP - California	12/12/66		REGION 7 - SUBSECTIONS			
	Chief Tracy Field Div.	Aqueduct in San Joaquin	3513100		REGION 1 - SUBSECTIONS			
	U. S. Bureau of Reclamation	Valley''			Guelph	H. W. Haberl	"E.H.V. AC & DC	12/6/67
	Box 570					Quebec Hydro	Transmission"	
	Tracy, Calif.					Montreal, Quebec, Canada		
					A STATE OF THE STA			
REGION 7	Jack Foster				REGION 8 - SECTIONS			
KEGION I					Benelux	J. Neyrinck	"Filtering Problems in	12/9/66
Canadian Atlantic	R. H. Tanner, Mgr.	"Recent Developments in	12/14/66		Benefux	(Address Unknown)	Carrier Telegraphy"	Baltimore
	Microwave Laboratory	Telecommunications"				Contact Section Secy. /Treas.:	Spallt damoits Wall Whorley	
	Northern Electric Co., Ltd.					Werner Lulofs		
	Ottawa, Ontario, Canada					9 Der Kinderenlaan		
T 3	Dr. A. C. Davisson	"Wind Tunnel - A Bridge	1/10/67			Laren, N. H., Netherlands		
London	Dr. A. G. Davenport University of Western Ontario,	Between Research and	1/10/07		Toda Etablina "wantitored	anoughomymano.	UPI CONTROL CONTROL CONTROL	12/12/44
	London, Ontario, Canada	Design'			Egypt	Galal El-Mahdy	"Electron - Gun Manufacture"	12/12/66
	- ontario, odnada					Research Eng'r. Electric & Electronic		
						Industries Est.		
	D. L. Duff	"Static Inverters"	12/7/66			Cairo, Egypt		Philadelph
	C. W. Co., P. O. Box 510)		Is deciding and	Taxoqzolk DATMA Selemerering	
	Hamilton, Ont. Canada					Pr. Dr. Abdel-Samie Mostafa	"Researches in Electronics"	12/4/66
		boise, leabo	10/5///	3		Dean, Faculty of Engineering		
	Donald Prendergast	"Marketing Switchgear"	12/7/66			Hadara, Alexandria, U.A.R.	K. S. Kelley	*
	C. W. Co., Dept. WE 4				PECION C. CECTIONS			
	Hamilton, Ont. Canada				REGION 9 - SECTIONS			
Niagara International	D. Femiano	"Bell's Automatic Landing	12/1/66		Mexico	Carlos Nunez Arellano	"La Contribucion De Mexico	12/8/66
Magara International	SPIN -10 Project	System"	Sacrament	and the same of th		(Address Unknown)	A Las Investigaciones Espaciale	
	Bell Aerosystems Co.	Head of Nucle	(Contact Section Secy.:		
	Wheatfield, N. Y.					Antonio Cardenas Loaeza		
						Apdo, Postal 56		
						Naucalpan, Mexico		

AEROSPACE & ELECTRONIC SYSTEMS - GROUP CHAPTER MEETINGS

	daeagd to bliff deech			
REGION 1			Date	
Section	Speaker and Address	Title of Speech	Presented	1
Long Island	Harold E. Nash U.S.N. Underwater Sound Lab.	"Characteristics of the Ocean Which Influence the Application	12/13/66	
	New London, Conn.	of Underwater Acoustics in Sonar and Other Systems"		
REGION 3				
Canaveral	James B. Curry (Address unknown)- Contact	"Constant Bandwidth Applications"	12/6/66	
	Section Secretary:			
	Horst A. Poehler 400 Third Ave., Sea Park Homes			
REGION 7	Eau Gallie, Fla.			
Ottawa	Lt. Gen. L.C.G. Lilley	"Communications Plans for the	12/6/66	
	Canadian Defense Forces NationalDefense HQs	Canadian Defence Forces'		
	Ottawa, Ontario, Canada			
	ANTENNAS & PROPA			
	MICROWAVE THEORY & T Groups Chapters M			
REGION 1				10
Syracuse	Prof. R. E. Hayes, Cornell	Panel Discussion:	12/8/66	1
	University, Syracuse, N.Y.;	'Present Day and Future Solid State Microwave Devices in		
	J. R. Knapp, Dr. T. A. Midford, and J. M. Tomlinson,	Radar Systems"		
	General Electric Co., Syracuse, N.Y.			
REGION 2				
Paltimone	K. J. Button	"Advances in Submillimeter	1/11/67	
Baltimore	MIT National Magnet Lab.	Instrumentation and the Use of		
	Cambridge, Mass.	Superconducting Magnets in Electromagnetic Systems'		
	J. L. Levatich	"Communications Satellites"	12/14/66	
	COMSAT Corporation			
	1835 K Street, N.W. Washington, D.C.			
Philadelphia	Seymour B. Cohn RANTEC Corporation	"Swept Frequency Testing"	12/14/66	
			12/14///	0
	K. S. Kelley RANTEC Corp.	"Cassagrain Reflector Feeds and Flat Plate Arrays"	12/14/66	
	Calabasas, Calif.			

AUTOMATIC CONTROL - GROUP CHAPTERS MEETINGS

Section Baltimore Machine M	Dr. John E. Gibson, Dean School of Engineering Oakland University	Title of Speech "Future Trends in Automatic	Presente
	School of Engineering	"Future Trends in Automatic	
	Rochester, Mich.	Control"	12/15/66
	Dr. Walter J. Culver Westinghouse Elec. Corp. Defense & Space Center Baltimore, Md.	Tutorial Lecture Series #1 and #2: "Stochastic Control"	12/1/66 12/8/66
REGION 4		ben win The Bosing Lompany	
Chicago	Chun Hsu Argonne National Lab. Lamont, Illinois	"Control and Stability for Distributed Nuclear Reactor Systems"	12/13/66
Southeastern Mich.	Dr. A. J. Pennington University of Michigan Ann Arbor, Michigan	"Advances and Prospects in the Application of Control Computers to Power System Operation"	12/6/66
	Rand Systems and Hardway		
	PROADCASTING CDC	NID CHAPTER	
	BROADCASTING - GRO MEETINGS		
REGION 2			
Cleveland	D. O. Beuoy, Marketing J. H. Haren, Intercity Circuits R. D. Webner, Special Svs.	"The Telephone Company and Your Broadcast Facilities"	12/8/66
	Ohio Bell Telephone Co. Cleveland, Ohio		
	COMMUNICATIONS T	ECHNOLOGY	
REGION 3	GROUP CHAPTER	MEETINGS	
Alabama	Donald Nettleman Southern Bell T. & T. Co. Birmingham, Alabama	"Maintenance Engineering Responsibilities"	1/9/67
New Orleans	J. D. Styers, Jr. Southern Bell T. & T. Co. Nashville, Tennessee	"Processing Telephone Calls Electronically"	12/15/66
D DOTON: 4			
ALLEGE STATE OF THE STATE OF TH			12/11/14
Chicago	R. P. Sanders Automatic Electric Co. Northlake, Illinois	"Trends in Digital Telemetering and Control"	12/6/66
REGION 5			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Dallas	Norman P. Gluth LTV Electrosystems, Inc. Garland, Texas	"A High Reliability Miniature Airborne Page Printer"	12/1/66

REGION 6			Date
Section	Speaker and Address	Title of Speech	Presented
Los Angeles Council	Adam Lender Lenkurt Electric Co. Palo Alto, California	"Correlative Techniques for Binary Data Transmission"	12/6/66
Sacramento	Sgt. Richard Dolmseth California Highway Patrol 2490 First Avenue Sacramento, Calif.	"California Highway Patrol's AUTO-STATIS Facility"	12/8/66
Seattle	Malcolm L. Campbell The Boeing Company See the Washington	"Aircraft Communications by Satellite"	12/15/66
	Seattle, Washington COMPUTER GROUP CH	APTER MEETINGS	
	Li., Gell, D. C. G. Littely	Approximate Callions Plans for the	

REGION 1 add at sheet

Connecticut	Dr. J. Presper Eckert, V.P. UNIVAC Div., Sperry Rand P. O. Box 500 Blue Bell, Pa.	"Some Projections on Computer Systems and Hardware for the Next 5 to 15 Years"	12/1/66
REGION 4			

Richard P. Sanders

400 N. Wolf Road Northlake, Illinois

Automatic Electric Labs.

REGION 5

Chicago

Houston	Dr. David Wheeler	"The Time Sharing System for	12/15/66
	The Computer Center	The Computer Center, Berkeley"	
	The University of California		
	Berkeley, California		

ELECTROMAGNETIC COMPATIBILITY GROUP CHAPTER MEETINGS

"Trends in Digital Telemetering

and Control"

12/6/66

REGION 1			
Mohawk Valley	Donald R. J. White, Pres. White Electromagnetics, Inc. Rockville, Maryland	"Electromagnetic Compatibility - Its Definition, Problems and Future"	1/10/67
Philadelphia	G. J. Palladino American Electronic Labs., Inc Colmar, Pennsylvania	"Design & Application of a Solid- State Impulse Generator"	12/7/66
12/11/64	RANTEC Corp.		

ELECTRON DEVICES - GROUP CHAPTER MEETINGS

REGION 1			Date
Section	Speaker and Address	Title of Speech	Presented
Syracuse	Dr. R. E. Hayes Cornell University Dr. T. A. Midford Dr. T. M. Tomlinson Mr. T. R. Knapp General Electric Co. Syracuse, N. Y.	Panel Discussion: "Present Day and Future Solid- State Microwave Devices in Radar Systems"	12/8/66
REGION 6			2 NOIDER
Albuquerque		"Piezoelectric Materials and Devices"	12/1/66
	ENGINEERING MANAGEMENT - GRO	DUP CHAPTER MEETINGS	
REGION 1	September of Street Str	Westinghouse Direct	
New York	H. T. Marcy, V.P. IBM General Engineering 425 Park Avenue	"An Engineer's Metamorphosis Into an Executive"	12/8/66
REGION 3	New York, N.Y.	Frank E. Simo Eston Vale Towne, In	
Photodelphia.	Drives and Their Appli	Dynamatic Division right - "ST22 FloringhOl Noc.	12/11//
New Orleans	Walter K. MacAdam American T. & T. Co. 195 Broadway New York, N.Y.	"Engineering Management Decision Making"	12/1/66
	ENGINEERING IN MEDICIN GROUP CHAPTER		
REGION 1			
New York	Dr. Charles J. Campbell Ophthalmology Research	"Ocular Effects of Laser Radiation"	12/6/66
	Columbia Univ., College of Physicians & Surgeons New York, N.Y.		
REGION 4			
Chicago	W. H. Burns, M.D. Indiana University Medical School Indianapolis, Indiana	"A Totally Implantable Artificial Heart"	12/13/66
REGION 6			Philadelphia
Los Angeles Council	Simon Rodbard, M.D. City of Hope Medical Center	"Hydrodynamic and Electronic Approaches to the Diagnosis	12/8/66
	1500 E. Duarte Road Duarte, California	of Heart Disease"	
Seattle	Paul J. Stoll University of Washington E. E. Department Seattle, Washington	"Respiratory Response to Sinusoidal Variations of Inspired CO ₂ in Resting Man"	12/8/66

-13-

Seattle, Washington

ENGINEERING WRITING AND SPEECH GROUP CHAPTER MEETINGS

REGION 6	Speaker and Address	Title of Speech	Date Presented
Los Angeles Council	Chapin Day	"Data Graphics and Computer-	12/2/66
Los Angeles Council	IBM Systems Engineering Long Beach, California	Aided Design"	
	INDUSTRY & GENERAL AP	PPLICATIONS	
	GROUP CHAPTER MI	EETINGS	
REGION 2			
Philadelphia	Henry J. DeMattia, and Ernest Powell Electronics-Electrical Design Naval Ship Systems Command Washington, D.C.	''Shipboard Electromagnetic Compatibility''	12/8/66
REGION 1	C. G. Helmick	"Static Inverter Drives - Why,	12/6/66
Pittsburgh	Westinghouse Elec. Corp.	Where and When"	
	Buffalo, New York		
REGION 5			
Saint Louis	Frank E. Simo	"Static D.C. Power Supplies	1/9/67
Saint Bours	Eaton Yale Towne, Inc.	and Eddy Current Variable Speed Drives and Their Applications!	
	Dynamatic Division 3122 Fourteenth Ave.	and Constroll Lands	
	Kenosha, Wisconsin		
	Richard J. Rahoi Square D Co. 4041 N. Richards St. Milwaukee, Wisc. and Paul E. Lacke Square D Co.	"Solid State Switching Equipment and Circuits!"	12/5/66
	1212 Pierce Street St. Louis, Mo.	Dr. Chezice de Camphel	
Ī	NFORMATION THEORY - GROUP C		
REGION 1			
New York	Dr. David Slepian Bell Telephone Labs.	"Current Research on the Gaussian Channel"	12/9/66
	Murray Hill, N.J.		
REGION 2			
Philadelphia	Dr. A. K. Joshi University of Pa. Philadelphia, Pa.	"Some Aspects of Feedback in Communication"	12/5/66
REGION 6	"Hydrodynamic and Elect		
Los Angeles Council	Michael Horstein Hughes Aircraft Co.	"Recent Results in the Theory of Feedback Communications"	12/6/66
	El Segundo, Calif.		

MICROWAVE THEORY & TECHNIQUES GROUP CHAPTER MEETINGS

REGION 1			
Section	Speaker and Address	Title of Speech	Date Presente
Long Island	Dr. Robert M. Ryder Transistor & Diode Dev. Bell Telephone Labs. Murray Hill, N.J.	"Microwave Generation by Impact Avalanche Transit- Time Diodes"	12/6/66
	POWER GROUP CHAPT	ER MEETINGS	
REGION 1			
Maine	Robert A. Nickless Keyes Fibre Co. Waterville, Maine	"A User Looks Out at Electric Utilities"	1/10/67
REGION 2			
Cincinnati	Adolph C. Neaderland Burndy Corp. Norwalk, Conn.	"Sodium Cable and Connector Applications"	1/17/67
Lehigh Valley	John F. Clancy G. & W. Electric Specialty Co. 3500 W. 127 Street Blue Island, Ill.	"High Voltage Cable Termina- tions and Oil Switch Applications"	12/9/66
Philadelphia	J. H. Simpson G. E. Company Philadelphia, Pa.	"Vacuum Interruptors - Their Performance, Manufacture and Application"	12/6/66
REGION 3			
Chattanooga	R. F. Jones Charles W. Ashby Co. Birmingham, Alabama	"A Survey of Load Break Devices"	1/10/67
Florida West Coast	J. C. Huffer Florida Power Corp. St. Petersburg, Fla.	"Fundamentals of System Operation"	1/4/67
Miami	F. C. Van Wormer General Electric Co.	"New Trends in URD"	12/1/66
12/12/66	Schenectady, N.Y.		
REGION 4		Scotteday Arisona	1 =
Chicago	Robert E. Heltman G. E. Co., Applications Div. 840 South Canal Street Chicago, Illinois	"The Role of Electric Power in Future Mass Transportation Systems"	12/13/60
Milwaukee	Sol Burstein, and Glenn A. Reed Wisconsin Electric Power Co. Milwaukee, Wisconsin	"Point Beach Nuclear Plant"	12/1/66
Southeast e rn Mich.	Dr. A. J. Pennington Detroit Edison Co. 2000 Second Ave. Detroit, Michigan	"Advances and Prospects in the Application of Control Computers to Power System Operation"	12/6/66
	-15-		(Cont'd)

REGION 5	Speeding and Address	Title of Speech	Date
Section	Speaker and Address	Title of Speech	Presented
Central Tex	R. L. Hancock	"Lightning Arrester Theory and	12/8/66
	Dept. of Distribution	Application"	
	City of Austin,		
	Austin, Texas	Sell Telaphone Laber	12/0///
	R. D. Alexander City Public Service Board	"Lightning Arrester Testing"	12/8/66
	San Antonio, Texas		
	COMPARIMENT AND A STREET OF THE STREET OF TH		
Houston	Thaddeus E. Brown	"Basic Overcurrent Relaying	1/11/67
	Dow Chemical Co.	and Coordination of Protective	
	Freeport, Texas	Devices"	
DECION (
REGION 6	The state of the s		
Phoenix	Lester S. Ormsby	"Pumped Storage - Montezuma	12/8/66
THOCHIX	Arizona Power Authority	Project"	REGION 2
	1810 West Adams		
	Phoenix, Arizona		
Portland	W. D. Smith;	Panel Discussion:	12/14/66
	J. N. Lee	"Planning Substations"	
	W. L. Carey Portland G. E. Co.		
	621 S. W. Alder St.		
	Portland, Oregon		
	Tornama, Orogon		
Sacramento	William Walbridge	"Problems in Developing a	12/15/66
	Sacramento Municipal Utility Dis	st. Nuclear Power Plant"	
	6201 S Street		
	Sacramento, Calif.		
DECION 7			
REGION 7			
Vancouver	D. R. McArdle	"Communications and Control	12/5/66
	B. C. Hydro & Power Authority	Facilities for the Vancouver	
	970 Burrard St.	Island D.C. Transmission Syste	em"
	Vancouver, B.C.		
	RELIABILITY GROUP CH	APTER MEETINGS	
REGION 6	· IIIIIIIII WANTI	THE THE WILL THAT	
RUGBUN			
San Diego	Richard Winters	"TX - the Answers to the	12/12/66
New York	Dickson Electronics Corp.	Reliability Dilemma'	
	Scottsdale, Arizona		

GUIDELINES CONCERNING THE HOSTING OF VISITORS FROM OUTSIDE THE UNITED STATES

Visits of U. S. citizens to other countries and of citizens of other countries to the United States constitute an important element in IEEE relations between the two countries. They can contribute significantly to the increase in scientific and technological understanding that we seek. In situations where the Chairman of an IEEE-sponsored meeting extends invitations to citizens of other countries to participate in the meeting, he is authorized to establish a committee specifically charged with the responsibility of acting as Host to these visitors. Included in this authorization is approval for the expenditure of funds to accomplish this end. A specific conference budget item should therefore be established when planning the meeting. When the IEEE meeting is conducted in a country other than the United States, problems relative to invited visits may be somewhat different. The following practices suggested for the U. S., however, can serve as appropriate guidelines for practices that may be developed in that country.

In the case of Soviet and Eastern European visitors, the role of the American Host (sponsor) is central to the success of the visit and its contribution to the objectives of the special exchange program, now being carried on by the IEEE within the framework of the formal exchange program in effect between these countries and the United States. The ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations has been established to ensure that such exchanges are properly carried out and should be called upon for advice about proper procedures to follow in making suitable arrangements. The secretary of this Subcommittee is responsible for maintaining current awareness of activities in this area.

If he is to fulfill his role, the Host must be prepared to assume a number of responsibilities in cooperation with the cognizant IEEE committees and Institute staff and with the departments of the U. S. Government that are engaged in operating the exchange program or are affected by it.

The Host is expected to do the following:

- A. Invitees from countries other than the Soviet and Eastern European Nations
 Consider such factors as: previous history of invited visits by citizens
 of that country; their proposed itinerary; local facilities available for
 entertaining them; providing suitable interpreters; etc., in arriving at
 an overall plan to make the visit as mutually satisfactory as possible.
 The IEEE International Convention Reception Committee may be able
 to offer advice and help.
- B. Invitees from Soviet and Eastern European Nations to the United States
 - 1. Consider the responsibilities outlined in "A" above.
 - 2. In order to facilitate the issuance of a visa, communicate with the secretary of the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations as early as possible and provide the full name, address, and, if available, the date and place of birth of the prospective visitor. The secretary, in turn, will then communicate this information to the U. S. Department of State, which will set in motion the machinery for consideration of the visitor as a special case under the provisions

of the McCarran Act. *

- 3. Arrange in advance with the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations and the U. S. Department of State the itinerary that the visitor will follow in the United States. Every effort should be made to include in his itinerary as many visits of interest as the Host resources and the U. S. Government restrictions allow.
- 4. Arrange for the visitor to be met at the port of entry into the United States (usually New York), and assist him during his visit in this country, and see him off upon departure. This activity should be accomplished with graciousness and hospitality -- not with the attitude of policing the visitor.
- 5. Engage the services of an American travel agency, if necessary, to assist in arranging transportation, hotel and any necessary interpreter facilities for the visitor. If such an arrangement is made with the travel agency, the sponsor should make sure that the travel agency is aware of these responsibilities.
- 6. Insure that the visitor follows the agreed itinerary and does not deviate from it without prior consultation between the Host and the U. S. Department of State. When any deviations are requested by the visitor, the Host should try his best to secure permission for such deviations, provided they conform with the spirit of the exchange and do not violate security regulations.
- 7. Consult with the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations and the U. S. Department of State before making any changes in the itinerary, including additional professional visits, new routing, new scheduling, or requests for extensions of authorized stay in the United States.
- 8. Write to the U. S. Department of State, copy to the secretary of the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations, to confirm the departure of the visitor and to describe any special problems that may have arisen.

It is IEEE policy to make the stay of all invited visitors as enjoyable and rewarding as possible. In no instance should the IEEE impose limitations on length of visits or freedom of access and mobility beyond those imposed by U. S. Government regulations. The Host is expected to exercise good judgment in applying the principles set forth in the foregoing.

NOMINATIONS FOR INSTITUTE AWARDS. It is desirable that all Group and Section chairmen participate. There are members in Sections and Groups who may be qualified and deserving candidates for honors, but their nominations depend upon the preparation of specific Award forms. Sections and Groups should appoint committees to survey their memberships for qualified candidates and to originate nominations before deadlines (some as early as April 1, 1967). Candidates' qualifications must be matched against specifications (see Spectrum, Nov. '66, pp. 12, 13), and the appropriate form be requested by naming the Award. (Information, brochure, forms, Miss Una Lennon)

TOP-SIDE AND OTHER DEVELOPMENTS

NEW ADMINISTRATION AND BOARD OF DIRECTORS. The annual Assembly, composed of 18 elected Directors (see E. E. No. 8, p. 2, box) met January 4, '67, and added 9 appointed Directors to make up 1967 BofD of 27. Among the 27 the Assembly named two appointed-Vice Presidents, the Secretary, Treasurer, and Directors of Regions 9 and 10. The BofD then met and named its Executive Committee (ExCom) and, except for the President, assigned its members as Coordinators of various Standing Committees and BofD functions. (See box, p. 2, for particulars; compare with box in E. E. No. 8 for changes; see Bylaws 201-203, 301-303, edition of Nov. 3, '66, for authority.) A press release gave for most Directors their company or college affiliations, titles, addresses for mail. (Copies, J. M. Kinn)

E. E. editor's impressions: From the press release, the depth of most Directors' technical involvement in addition to their broad executive attainments. From study of the 1966 and 1967 BofDs and Bylaws, respect for IEEE's democratic process: note that all 18 members of the 1967 Assembly were elected (none appointed), 8 of them within the past 6 months, 6 more serving initially during 1966, and only 4 serving terms as far back as 1965.

1967 BOFD AND EXCOM MEETING SCHEDULES. Barring changes and extras, BofD will meet: Mar. 24 at UEC; Aug. 22 (WESCON) Fairmount, San Francisco; Nov. 2 (NEREM) Boston-Sheraton, Boston. Excom will meet: Feb. 14, UEC; Mar. 18, New York-Hilton; Apr. 20-21 (SWIEEECO) Baker, Dallas; May 31-June 1, Queen Elizabeth, Montreal; June 28, UEC; Aug. 21 (WESCON) Fairmount, San Francisco; Sept. 20, UEC; Nov. 1 (NEREM) Boston-Sheraton, Boston; Dec. 12, UEC. The 1968 annual Assembly meets Jan. 4, 1968.

CREDITS FOR SECTION MAINTENANCE INCREASED. At its first meeting of 1967, BofD changed Bylaw 402.10 with the following effects: increased basic Section Allowance to \$200 from \$100... increased to \$15 from \$10 the per-meeting allowances for Sections, Subsections, and Group Chapters within the provisos of Bylaw 402.10 c and d... provided for each and every Group Chapter membership held by a Section member as of Dec. 31 each year an allowance to the Section at the rate of 25¢ per Group Chapter member.

"SECOND" IEEE GENERAL MEETING. In addition to the March Convention, Bylaw 602 contemplated, "preferably in the summer," an annual general meeting of IEEE "primarily devoted to organizational matters." For the information of interested Units, Excom has recommended the deletion of this Bylaw at BofD's March 24, 1967 meeting.

STATEMENTS OF POLICY. Last codified in a blue, 16-page document in June 1966, these

^{*} It should be noted that, under the provisions of the Immigration and Nationality Act of 1954, specific approval of the Attorney General of the United States is required for the entrance into the U. S. of any individual who has received a visa by virtue of waiver of the regular provisions of this act and that a formal report on each such exception must be made to the Congress of the United States.

statements, prepared by ExCom and accepted by BofD, have the same force as Bylaws and are incorporated identically in the Section and TAB Manuals. Changes and additions have been reported in E. E. Nos. 7 & 8. A re-issue is due shortly. (Copies, R. M. Emberson)

SECTION RESERVE FUNDS. As anticipated in E. E. No. 8, p. 3, ExCom in Dec. '66, upon recommendation of the IEEE Finance Committee, approved upon a permissive basis, the investment of Sections' reserve funds in the IEEE investment portfolio maintained at headquarters. (Particulars, W. J. Keyes)

CONTRIBUTION TO CHAMBER OF COMMERCE CITY-BOOSTER CAMPAIGN. Excom rejected, as an inappropriate activity of an IEEE unit, a Section's request for permission to contribute \$50. "Services should be paid for," Excom ruled, "but not in this manner." (In parallel questionable situations, consult General Manager Fink.)

OTHER SECTION ACTIVITIES RULED INAPPROPRIATE. On advice of legal counsel, Excom in Dec. '66 stated policy to be "that IEEE shall not participate in Credit Unions or in Book Services (i. e., a service through which members might order books from a Section). Policies apply to all Units.

CHALLENGES AND OPPORTUNITIES

DATE-LINE: WHITE HOUSE, JAN. 4. "The engineer will . . . rebuild a new and far better urban America. And more than ever, the quality of his contribution will depend not only upon his technical abilities. It will be measured as well by his sensitivity to the people's needs. Engineering for the human environment . . . is the very essence of the challenge that lies before us." — Lyndon B. Johnson

CONTINUING EDUCATION. Did the capsule-like "Four Ages of the Engineer" by Purdue's dean of engineering click, in relation to the activities of your Unit? Re-read it, introspectively, in the copy of "Engineer" mailed you in January, p. 15. Then name some IEEE Groups, Sections, publications, which seem to be catering to one or more of the first 3 ages. How about your Unit? All 3? Can IEEE give direction to, if not instruction about, the 4th age? (Copies, "EJC Engineer," 345 East 47th St., New York, N. Y. 10017 USA)

EDUCATIONAL INNOVATIONS AT CONVENTION. Student Branch Counselors will participate in a panel clinic on Branch activities, and will attend Directors' Reception:

Open to all is an inter-Group Educational Seminar, initiated by IEEE Education Committee. Three Groups—Computers, Reliability, and Industrial Electronics & Control Instrumentation—will present survey papers concentrating on impact points of these areas on engineering as a whole. What could such papers do for your Section or Chapter meetings? What Groups for your purposes?

SPEAKER'S DIRECTORY. 68 Sections furnished questionnaire information about recent good speakers. Collated and mailed all Sections Nov. 30. Effective with this issue of E. E. (see canary-yellow Supplement), additional listings will be compiled. Consolidated in your file they become the Speaker's Directory. BofD looks upon this as a distinct aid to Unit chairmen and meetings committees in preparing technical

programs. All are urged to make comments on the usefulness of this information. Additional copies are available. (Miss Emily Sirjane)

Two-thirds of the Groups' <u>newsletters</u> carry comparable lists useful to <u>Chapters</u> in their specialties. In <u>Sections</u> having <u>Chapters</u>, interplay of these <u>lists</u> will benefit <u>both</u> and offer splendid possibilities.

STANDARDS WORK WITHIN GROUPS. The old <u>TC(S)</u> (Technical Committee - Standards) no longer exists as such. The aspects of its successor-Units will vary from Group to Group depending upon the amount of standardization work being done. Typically it may be called a Standards Committee or Subcommittee, either of the Group or of a Group Technical Committee. A designated officer will regularly receive the Minutes of the IEEE Standards Committee and ought to represent the Group at its meetings.

IDEA NO. 1,234

DISCUSSION PAPERS. When an author who is a member of a Chapter or Section "makes" IEEE Proceedings, Spectrum, Transactions, Convention Record, or other publication, he is ripe for re-billing of his paper for Section or Chapter Discussion. If his article will appeal locally, book him while he is in a state of euphoria; bill him as a half-hour's Added Attraction; tout him for the worldwide coverage already accorded his paper by his reviewer-peers. Cite page numbers; make scanning of his paper a pre-requisite; give him 8-10 minutes to sum it up and 20-22 minutes to defend it and answer questions. If he chooses to form a small panel of associates and competitors, so much the better! Discussion's the objective: seed some.

IDEAS NOS. 1,235, 1,236, ETC. Who will submit them to the Editor for briefing?

E. E. will print, with credit to the Unit, such items to inspire other Units. Whatwe've-done, how-we-did-it, why-don't we try this? Make your Units famous! We have
what Dr. A. N. Goldsmith aptly calls "transnational" coverage—E. E. goes everywhere.)

TOOLS AND AIDS

ORGANIZATIONAL ROSTER. New January 1967 issue, reflecting Jan. 1 personnel and Unit changes, is being mailed within a few days. Hereafter scheduled for January and September each year. (Copies, Miss Emily Sirjane)

IEEE AND JOINT CONFERENCES. Quarterly schedule of conferences was mailed in January. In greater detail than "Calendar" appearing monthly in Spectrum, and projected farther into future. Listings are made only after approval of ExCom. To avoid conflicts, and to make personal contacts on exhibits, publicity, programs, and publications, a must for those planning other-than-local meetings. (Copies, E. D. MacDonald)

HOSTING VISITORS FROM ABROAD. Under this title, E. E. Dec. '66 offered, on request, "Guidelines" prepared by Intersociety Relations Committee's subcommittee on cultural and scientific exchanges. ExCom feels that the instruction should be widely circulated in its entirety. Herewith, as an E. E. Supplement (green). (Extra copies, J. M. Kinn)

AUTHOR'S GUIDE TO IEEE PUBLICATIONS. January '67 Spectrum, pp. 15-16, carried first annual summary of IEEE general and Group printed periodicals: name, frequency, scope, purpose, publishing Unit, editor's name, address. Unique for ready reference. Save. Copies not available.

WHO GETS "ELECTRICAL ENGINEERING?" Section chairmen (4 copies, to facilitate action by margin references), vice-chairmen, secretaries, treasurers, offices, editors; Subsection chairmen, secretaries; Chapter chairmen; Group administrative committees, newsletter and Transactions editors; members, all Standing Committees; IEEE Counselors; representatives to outside organizations; IEEE Directors; staff secretaries, managers, department supervisors; advertising office; counselors-at-law. Save time—refer your correspondent to E. E.

"FOR YOUR INFORMATION"

PRESIDENT'S GOOD-WILL TRIP TO SOUTH AMERICA. See Mr. MacAdam's personal account in Spectrum, Jan. '67, p. 49, of his visit as Sections coordinator, 1966 ExCom, and President-elect.

MERGER COMPLETED IN FOUR YEARS. With the amalgamation of the last remaining Technical Committees (Standards)—<u>TC(S)</u>s—into Group structures, in accordance with an ExCom 1966 general directive, the merging of former AIEE and IRE entities into Units of IEEE has been finalized. With goodwill and accommodation all around, the estimated 5-year task was "90%" finished in 3 years. (Read W. G. Shepherd: IEEE Spectrum, June '66, p. 100.)

EFFECT OF DUES INCREASE UPON MEMBERSHIP. The 1966 BofD had to accept the risk of losing members in the process of raising dues and increasing services. Mid-January '67 figures show "Situation well in hand."

The number of dues payments received up to mid-January 1967 has been much greater than in the same period a year ago, and payments are in proportion to the larger number of invoices mailed this year. Meanwhile, IEEE total membership, even at a higher dues level, had soared to an all-time high. Comparative year-end figures: 1964, 153,978; 1965, 154,198; 1966, 160,070.

It should be understood that <u>factors</u> other than <u>dues</u> also operated to produce, both for resignations and total membership, these merely indicative, but reassuring, figures.

Incidentally, the staff is very much pleased with the response to the new "composite bill." It's rare that people when paying an invoice, take time to write such plaudits as "real professional job."

FINANCIAL SUPPORT OF GROUP AND SECTION ACTIVITIES. In 1966, revised fiscal control procedures made it possible for the first time to identify the total support going to IEEE Unit activities. Help to Sections, for example, far exceeded the monies turned over to them as dues rebates and meetings allowances. Help to Groups, in the form of cash support of printing costs, was revealed as being only a fraction of the total support of Group activities. The 1967 budgets have been, and future budgets will be, adjusted accordingly to take into account all elements of total support.

RECIPIENTS OF IEEE AWARDS. BofD approved the <u>major awards</u> and papers prizes; a press release January 12, '67 named recipients, organization connections, citations, and place of presentation (1967 Convention banquet and Directors' reception). (Biographies, copies of press release, J. M. Kinn)

Biographies of winners of IEEE's seven field awards appeared in Spectrum: June '66, p. 12; Oct. '66, pp. 20,24; and Jan. '67, pp. 18-20.

"EXPO 67" MONTREAL. Dates, April 28 - October 27. (Closes after National Electronics Conference, October 23-25.) IEEE Canadian Region (7) will co-sponsor the Congress of Canadian Engineers' meeting there May 29 - June 2. IEEE ExCom will hold a special meeting at Queen Elizabeth Hotel, May 31 - June 1. No technical conferences appear now to be scheduled for Montreal during Expo 67; but URSI-IEEE joint Canada-USA meeting is to be held in Ottawa May 23-26; and the Toronto Section and Canadian Region sponsor the International Electronics Conference and Exposition of the Canadian Region at Toronto September 25-27. E. E. will run any notices received of Units which intend to meet in Montreal during Expo 67. (Address editor)

Note: On account of IEEE's blazing spectrum of conferences, E. E. cannot single any one out for special mention. The "red-carpet treatment" has to be reserved for World's Fairs and IEEE's own International Convention. Sorry. See Spectrum, monthly: "News of the IEEE."

EDITORIA

Every time a Group holds a joint session or a joint conference with another Group, or pays it the compliment of publicizing papers of joint interest, the two Groups assert their intent to hurdle false barriers erected by too-exclusive rendering of their respective TAB-approved "areas of interest." Re-read Deming Lewis's "Communications—concept and reality," in November 1966 Spectrum, pp. 82-84, and see whether you don't draw this conclusion: that IEEE, if it be so minded, and entirely consonant with its Group structure, need not be plagued with the intellectual provincialism which, for the good reasons which Lewis cites, divides a typical academic community into "islands of scholarship." — I. S. C.

PUBLICATIONS COORDINATION. Excom Dec. 15, '66 took following actions: Approved IEEE's becoming an associated society with "Science Abstracts," published in London by The Institution of Electrical Engineers, with respresentation on the advisory board of Science Abstracts; approved air mail transmittal of page proofs of IEEE articles to speed up abstracting, indexing, in London, in exchange for preferential subscription prices for Section B (electrical engineering) and Section C (control). . . Authorized IEEE representatives to discuss recommendations for the establishment and operation of a United Engineering Information System (UEIS), the recommendations having been made by a tripartite committee of Engineering Index, Engineers Joint Council, and United Engineering Trustees.

WELCOME ABOARD!

"Freshmen" on the Board of Directors.

Incoming officers of Units, wherever you are.

Staff: Dr. Howard E. Tompkins (SM), presently Head, Department of Electrical Engineering, University of Maryland; to fill new post of Staff Director - Information Services, effective July 1, 1967; until then, consultant partitime (see E. E. No. 8, p. 5). In addition to staff and other-Society contacts he will work with Transactions editors in developing titles of papers, abstracts, citations, useful in retrieval of documents. (Biography, J. M. Kinn)

Dr. Leon Podolsky (F), joining the General Manager's staff on a part-time basis, primarily in support of <u>Technical Activities</u> Board operations. He has been Technical Assistant to the President, Sprague Electric Company. (Biography, J. M. Kinn)

New Group Chapters in Sections:

Section Chapter

Affiliation of Joint: Antennas & Propagation

N. Carolina Sections Microwave Theory & Techniques

Atlanta Communication Technology

Beaumont Power

Beaumont Industrial Electronics & Control Instrumentation

Dayton Aerospace & Electronic Systems

Joint: *
Fort Huachuca Aerospace & Electronic Systems
Tucson

Los Angeles Systems Science & Cybernetics

Joint:

New York - Long Island Reliability
Northern New Jersey

Spokane Power

Tokyo Computer

Toledo Power

Twin Cities Reliability

^{*} Phoenix withdrawing