ELECTRICAL ENGINEERING®

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FROM PRESIDENT
WALTER K. MacADAM

For many of us, this year brings new duties and responsibilities in Institute affairs, whether in Sections, Groups, or Committees, or as Officers or Directors. In taking on these responsibilities you are exemplifying one of the key elements essential to the continued health and progress of our Society--voluntary and dedicated service by individual engineers on behalf of their profession.

The activities you are undertaking will often be difficult and time-consuming, but will be rewarded by the satisfaction gained from valuable accomplishments. Please accept my sincere thanks and those of all Institute members for your willingness to serve.

Now, let's get to work!

* * * * * *

APRIL-MAY, THE LOOK-AHEAD MONTHS for all Units, preparatory to a strong closeout of Spring activities at end of June. Most important is to plan now for resumption of activities in early September. This spade work will not bear postponement July-August.

IEEE <u>Units</u> involved are Groups, Conferences, Councils, Boards, Committees, Regions, Sections, Subsections, Chapters, Student Branches, and Headquarters. Which one is yours?



STOP! IS YOUR PENCIL POISED? Mark the margins of "Electrical Engineering" (E. E.): this item to remember, that one to refer; this for Action, that to retrieve later. ("Where in so-and-so did Iseeit?")

E. E. 's pace: That he who <u>runs</u> may read. E. E. 's purpose: That he who reads may <u>run</u>.

CHALLENGES AND OPPORTUNITIES

NOMINEES FOR 1968. The IEEE Board of Directors on March 24 approved the following officer-nominees to appear on the ballot next September: For President, Seymour W. Herwald; for the Vice President elected by voting members, Lynn C. Holmes; for two Delegate/Directors-at-Large: Hubert H. Heffner, Charles H. Weaver, Thomas L. Martin, Jr., Charles F. Savage.

Regional Committees must submit nominees for Regional Directors (odd-numbered Regions) by April 30.

June "IEEE Spectrum" will carry notice of foregoing nominees, plus a reminder of Constitutional (Art. XII) provision for adding to the ballot nominations-by-petition prior to August 11.

In April, Sections and Groups are being invited to submit by June 1 recommendations for appointments to 1968 IEEE Standing Committees and Boards (not including Board of Directors (BofD)).

Also in April, each chairman of an IEEE Standing Committee or Board will be asked to recommend by June 1 the succeeding chairman and members for 1968.

(N. B. - See Calendar of IEEE Elections and Appointments in E. E. No. 6, July 1966.)

ELECTRICAL ENGINEERING® is published by IEEE 345 East 47 Street, New York, N.Y. 10017

"IDEA NO. 1, 235" - VARIETY, the Spice of Life. Formula for successful Chapter Meetings program, from Electromagnetic Compatibility (EMC) Chapter, Los Angeles Section: 1. Mix the places: LA, Norwalk, Redondo Beach, San Diego (100 mi.) 2. Mix the environment: motel; in-plant (with inspection); holiday dinner-party; brewery; restaurant. 3. Mix the speakers: industry, education, government. 4. Mix the disciplines: Two-way interchange of speakers with Groups outside EMC at half of EMC meetings; objective--reaching joint conclusions on EMC.

(Twist of lemon. Down the hatch! -Ed.)

TOTAL IEEE MEMBERSHIP is now at a record high, yet many eligible engineers who can use our services beneficially are not members.

On account of dispersion of plants, Sections bear the primary burden of recruiting; and share with the Technical Activities Board (TAB), publications, and the rest of us, an obligation to make our "product mix" attractive. Sustained effort is, therefore, required both to solicit new applications and to advance members in grade.

Bylaws 105-107 determine the qualifications of the grades, but sponsors often misinterpret them. So the judicially-oriented, hard-working Admission & Advancement Committee has to classify downward about 1-out-of-9 higher-grade bids, causing disappointments that take time to assuage. Avoid them by taking Bylaws literally. In dealing with close cases, hedge your bets. But don't let a boo-boo throw you: continue to induct new members, advance others.

NEW TECHNICAL & SCIENTIFIC ACTIVITIES COMMITTEE (NTSAC), youngest of the General Committees of TAB (Bylaw 307-4, 6), has created a Computer Aided Design Subcommittee publishing "CADAR" (Computer Aided Design Analysis and Realizability) Newsletter. Recommendations are due November 15 as to the future of this area of activity which overlaps those of several Groups. (Particulars, March Spectrum, p. 19; sample CADAR Newsletter, R. M. Emberson)

NEEDLES AND PRODS

LEAD-TIME FOR 3RD-CLASS BULK-MAIL LISTS. Address "strip-lists" affixed (or ready to affix) to envelopes can be furnished at New York within 2 weeks of receipt of request. How far in advance of the date of a conference, say, should the request be made? The recipient needs it in hand 3 weeks before conference. The Post Office takes up to three weeks handling it. Add IEEE's 2 weeks and you have 8 weeks (call it 2 months) before conference. If material is to be mailed elsewhere than at New York, add the time to move the striplists elsewhere by first-class mail or air. Use air mail for initial request.

Have you ever heard: "Sorry, but I did not get your mailing piece until too late to go"... or "until after the conference was over"... as the case may be?

COMMITTEE ON EDUCATIONAL ACTIVITIES. The Executive Committee of BofD (ExecCom) will hold a special meeting at Montreal on May 30 to discuss recommendations of its ad hoc Committee on Educational Activities, Dr. B. M. Oliver, Chairman, charged with defining the types of educational activity in which IEEE should engage, and recommending details of implementation. IEEE's Education Committee, the Education Group, our Student Branch Counselors, and others are interested in this subject of some complexity (e.g., see E.E. No. 8, Dec. '66, p. 3, ''Goals of Engineering Education''.)

TOP-SIDE AND OTHER DEVELOPMENTS

BYLAWS CHANGES. The pink Supplement to this issue of E. E. contains BofD revisions of January 4 and March 24, hence all, to date, since the most recent reprinting of November 3, '66. (See E. E. No. 8, p. 4.) Briefed: (105, 407) Specifications have been changed for Student, Student Associate, Student Branch, Student Associate, Student Branch, Counselor, and Student in military service. . . (106) Requirements have been reduced as to references on Associate grade applications. . . (108, 109, 110, 112, 405, 501) Adjustments

IEEE BYLAW REVISIONS Made By BOARD OF DIRECTORS January 4 and March 24, 1967

Bylaw 105 - Qualifications

105.6

Under the membership grade of Student there shall be two classifications: Student and Student Associate

- a. A Student member must carry at least 30 per cent of a normal full-time academic program as a registered under-graduate or graduate student in a regular course in electrical engineering, electronics, radio, an allied branch of engineering or the related arts and sciences in a "school of recognized standing."
- b. A Student Associate member must carry at least 30 per cent of a normal full-time academic program as a registered student in a regular course of study in electrical engineering, electronics, radio, an allied branch of engineering or the related arts and sciences in an institution, other than a "school of recognized standing," approved by the Executive Committee.

105.7

A Student entering military service shall retain his Student status while in military service for a period of three years, or longer upon re-certification.

105.8

Graduation from a course of at least 18 months duration of study in electrical engineering, electronics, radio, allied branches of engineering or the related arts and sciences in an institution other than a "school of recognized standing," approved by the Executive Committee, may be accepted as equivalent to one year's professional experience in those fields.

Bylaw 106 - Applications

106.2

Applicants for membership shall furnish names of references as follows:

For Senior Member For Member

- Five Fellow or Senior Members.
- Four Fellows, Senior Members or Members.
- For Associate

 The written endorsement (signature) of one IEEE member in any of the following grades: Member, Senior Member, Fellow, Honorary.

Bylaw 106 - Applications (continued)

106.2

For Student

 The Counselor at his institution, if such Counselor exists; otherwise, a member of the faculty of his institution, normally one who is a member of IEEE.

Bylaw 108 - Admissions and Transfers

108.3

There shall be no transfer fees. A notice of approval of a transfer shall be sent to the member.

108.5

The entrance fee and annual dues shall be payable with the application for admission to membership. Should the applicant fail of admission to membership, the sum remitted with the application shall be refunded.

Annual dues shall be applied to membership as follows:

If payment is received in the period October 1 to December 31, inclusive. membership shall continue until December 31 of the following year.

If payment is received in the period January 1 to March 31, inclusive, membership shall continue until December 31 of the current year.

If payment is received in the period April 1 to September 30, inclusive, the dues payable shall be one half of the annual dues, and membership shall continue until December 31 of the current year.

Bylaw 109 - Dues

109.1 - This Bylaw was deleted.

109.2

The annual dues for all grades other than Student shall be twenty-five dollars (\$25.00) per year. The dues for Student grade shall be five dollars (\$5.00) per year. Student members transferring to a higher grade, without interruption of membership, shall pay dues of fifteen dollars (\$15.00) for the first year of membership in the higher grade, except that such transferring Student members who reside in Regions 8, 9 and 10 shall pay annual dues of fifteen dollars (\$15.00) for the first three consecutive years of membership in the higher grade.

Bylaw 110 - Billing Termination and Reinstatement

110.2

After prior notification, if the bill for annual dues shall not have been paid on or before the time specified in Bylaw 110.1, it shall be the duty of the the General Manager to notify the member that, in accordance with the Bylaws of the IEEE, distribution to him of all publications has been discontinued and that if the dues remain unpaid on December 31 of the then current year, membership shall be terminated. Accompanying this notice shall be a final bill, with the suggestion that the member pay the bill and reinstate his membership.

Bylaw 112 - Severances

112.3 - This Bylaw was deleted, because it duplicated Bylaw 112.2.

Bylaw 302. - Executive Committee

302.14

The Executive Committee may select and authorize the execution of contracts with an investment advisor, which may provide that the investment advisor shall have discretionary authority over IEEE's investment portfolio.

Bylaw 303 - Corporate Officers

303.10

The Treasurer shall cause to be prepared an annual audit of the affairs of the IEEE by certified public accountants and a report thereof submitted to the Board of Directors. The Treasurer shall also make a report to the Executive Committee semi-annually concerning the status of the IEEE investments. The Treasurer, before making changes in the IEEE portfolio, shall report the proposed changes to the Executive Committee and obtain its approval.

Bylaw 307 - Technical Activities Board

307.4

There shall be the following General Committees of TAB, the officers and members to be appointed by TAB:

New Technical and Scientific Activities Research Safety Standards

Bylaw 307 - Technical Activities Board (continued)

307.5

The Standards Committee shall consist of not more than 26 Institute members, including a Chairman, a Vice Chairman, and the immediate Past Chairman, plus a Secretariat assigned from the Headquarters Staff.

The Committee is responsible on an Institute-wide basis for encouraging and coordinating the work of formulating and revising IEEE Standards. The Committee gives final approval to IEEE Standards prior to submission to the Executive Committee for publication. It considers and investigates all matters relating to units and standards in the field of electrical engineering, electronics, radio, allied branches of engineering, or the related arts and sciences. It represents the IEEE in cooperation with other standardizing bodies in matters relating to units and standards.

The Standards Committee shall be empowered to establish and appoint subcommittees (such as Standards Coordinating Committee).

307.6

The New Technical and Scientific Activities Committee shall consist of not more than 20 Institute members including a Chairman, four Vice Chairmen, a Secretary and the immediate Past Chairman. A Vice Chairman shall head each of the following committees: Advisory, Basic Sciences, Liaison, and New and Specialized Technologies. The activities of each of these committees shall fall within the scope of the Parent Committee.

The Committee shall be particularly concerned with the seeking out at an early stage and the promotion of IEEE interests in new developments in the broad field of electrical engineering and those areas of other branches of the sciences and engineering in which applications of interest or importance to the electrical field are developing. It shall perform a staff function for TAB, investigate and promote through its own members, activities in these fields until the areas of technical interest crystallize into recognizable scopes, then recommend to TAB an appropriate permanent technical organization for the new activity in existing, modified, or new Groups. The Committee by itself or in cooperation with existing Groups or other Societies, shall, keeping TAB informed, encourage and promote reports, publications, sessions, conferences and meetings as may seem most appropriate for developing the position of IEEE in the new fields.

307.7

The Research Committee shall consist of not more than 20 Institute members, including a Chairman, Vice Chairman, Secretary, and immediate Past Chairman.

The Research Committee shall be concerned with all aspects of research of interest to the Institute and shall serve to stimulate, coordinate, and support, as required and authorized, these interests. It will perform a staff function for TAB which will include: (1) encourage and assist Groups, in their respective fields, continuously to identify, evaluate, and report research needs and progress, and to stimulate research activity in areas of apparent need; (2) provide reports and recommendations on the IEEE positions regarding research; (3) recommend means of optimizing IEEE cooperation with appropriate governmental, industrial, and educational institutions and agencies concerned with research of interest to

Bylaw 307 - Technical Activities Board (continued)

307.7 (continued)

IEEE; (4) suggest appropriate IEEE representation in cooperative interdisciplinary research studies or activities involving other Societies or special study groups when electrical or electronic interests are involved; (5) assess methods and procedures for optimum performance of research including integration, evaluation, and balancing of research with development, production and distribution activities, and evaluate the current status of research planning and progress in industry and government; and (6) encourage and promote reports, publications, sessions and meetings at various levels to evaluate programs or present recommendations regarding opportunities, needs or deficiencies in research efforts.

307.8

The Safety Committee shall consist of not more than 15 Institute members including a Chairman, a Vice-Chairman, a Secretary, and the immediate Past-Chairman.

The Committee shall act in an advisory capacity to TAB in matters relating to the protection of persons and property against hazard due to or resulting from the presence of electricity or the use of electric and electronic apparatus, material and appliances, and report such recommendations thereon as it deems desirable for action by the IEEE.

Bylaw 401 - Regions

401.15

The Executive Committee may authorize by establishing a formula or policy statement within the limits of funds budgeted by the Board of Directors for this purpose, the reimbursement of actual and necessary travel expenses to attend one meeting per year by members of certain of the Standing Boards and Committees listed in Bylaw 304 residing in Regions 8, 9 and 10. The amount and distribution of such reimbursement shall be decided in consultation with the respective Regional Directors.

401.16

Subject to budget limits approved by the Board of Directors, the Executive Committee may authorize the transfer of funds, for development of IEEE activities in Regions 8, 9 and 10, to the respective Regional treasuries, the amounts and purposes thereof to be decided in consultation with the respective Regional Directors.

Bylaw 402 - Sections

402.10

For the maintenance of a Section the IEEE shall credit to the Section for each

402.10 (continued)

calendar year:

402.10.a. - Basic allowance - there shall be an allowance of two hundred dollars (\$200.00) per Section.

402.10.c. - Meeting allowance - there shall be an allowance of fifteen dollars (\$15.00) per meeting for not more than ten meetings of the Section within the calendar year.

There shall be an allowance of fifteen dollars (\$15.00) per meeting for not more than ten meetings of the Subsection within the calendar year. There shall be an allowance of one hundred dollars (\$100.00) for not more than one Section Technical Conference per year, when such a conference is held under the conditions specified in the IEEE Section Manual.

402.10.d. - Group allowance - for each Group Chapter, the IEEE shall credit not less than fifteen dollars (\$15.00) to a Section for each meeting of the Section promoted by a Chapter up to ten meetings per Chapter per year, provided such meeting is attended by ten or more Section members and a report of such meeting, including a statement of the number of members attending, signed by a Chapter officer, is forwarded to IEEE head-quarters through the Section Secretary-Treasurer. A meeting of the Section promoted by a Chapter may be counted among the above ten or may be counted among ten meetings of the Section as provided in these Bylaws, but not among both as such would result in duplicate payments for the same meeting.

402.10.e. - Group Chapter Membership Allowance - For each Group Chapter membership held by each Section member as of December 31 of each year, there shall be an allowance of twenty-five cents (\$0.25) per Chapter membership.

Bylaw 405 - Groups

405.7

The expenses for operating a Group shall be defrayed through the levying of fees or other charges approved by the Executive Committee. Group fees shall be applied to membership in the respective Groups as follows:

Fees received in the period October 1 to December 31, inclusive, shall apply to membership to December 31 of the following year.

Fees received in the period January 1 to March 31, inclusive, shall apply to membership to December 31 of the then current year.

If Group fee payments are received in the period April 1 to September 30, inclusive, the amount payable shall be one half of the annual fee, and the membership shall continue until December 31 of the then current year.

Bylaw 407 - Student Branches

407.3

Upon receipt of a petition signed by the IEEE Counselor, or in the event one has not been appointed, by a representative of the faculty (who must be an IEEE member) of the educational institution involved, and by ten or more IEEE members who are students in a "school of recognized standing," the establishment of an IEEE Student Branch may be authorized at that institution, by the Executive Committee, upon the recommendation of the Regional Director.

407.4

Upon receipt of a petition signed by the IEEE Counselor, or in the event one has not been appointed, by a representative of the faculty (who must be an IEEE member) of the educational institution involved, and by ten or more IEEE members wno are students in a school in which Student Associate membership is permitted, the establishment of a Student Associate Branch may be authorized in that institution, by the Executive Committee, upon the recommendation of the Regional Director.

407.6

The IEEE, by action of the Executive Committee, may join with another engineering or technical society to co-sponsor a Joint Student Branch in a "school of recognized standing" or a Joint Student Associate Branch in an educational institution, other than a "school of recognized standing," provided it is approved by the Executive Committee, upon the recommendation of the Regional Director. The petition for the establishment of the Branch must be signed by the IEEE Counselor, or by a representative of the faculty (who must be an IEEE member) of the educational institution involved, in the event a counselor has not been appointed, and by ten or more Student members of the IEEE.

Bylaw 501 - Periodicals

501.7

Member subscriptions to all periodicals shall terminate on December 31 of each year. Subscription fees received in the period October 1 to December 31, inclusive, shall extend the subscription to the period ending December 31 of the following year. Fees received in the period from January 1 to March 31, inclusive, shall apply to the period ending December 31 of the then current year. If payment for a subscription is received in the period April 1 to September 30, inclusive, the fee charged shall be one-half the annual subscription fee, and shall apply to the period ending December 31 of the then current year.

Bylaw 602 - Other General Meetings

This Bylaw was deleted and Bylaws 603 and 604 were renumbered as 602 and 603 respectively.



IEEE SPEAKERS DIRECTORY

The information in this Directory has been compiled from data extracted from meeting reports received in IEEE in the months of February and March 1967.

REGION 1			
Section_	Speaker and Address	Title of Speech	Date Presented
Berkshire	Dr. W. B. Burford Conductron (McDonnell Aircraft) Box 516 St. Louis, Missouri 63166	"Semiconductor Electronics"	1/10/67
Boston	Prof. H. Raiffa Harvard University Cambridge, Massachusetts 02138	"Decision Analysis"	12/8/66
Elmira-Corning	Warren M. Macek, Res. Sect. Head Electro-Optics Group Sperry Gyroscope Company Great Neck, New York 11020	"The Ring Laser Rotation Sensor"	1/23/67
Ithaca Copy of the	J. A. Haddad (Address Unknown) Contact Section Secy.: N. Thomas Gaarder Cornell University Phillips Hall	"Computer Technology and Engineering: Past, Present, Future"	2/15/67
	Prof. N. Marcuvitz New York University, School of Engineering and Applied Science University Heights Bronx, New York 10453	"Field Networks for Plasma Models"	1/18/67
New Hampshire	Thomas J. Norris, Engrg. Mgr. Traffic Facilities & Equipment New England Telephone Company Manchester, New Hampshire 03105	Session 1 - "The Dartmouth General Electric Time - Sharing Computer System"	1/11/67
	Prof. Paul T. Shannon Assoc. Prof. of Engineering Dartmouth College Thayer School of Engineering	Session 11 - "The Dartmouth General Electric Time - Sharing Computer System"	1/11/67
New Jersey Coast	Hanover, New Hampshire 03755 L. G. Kersta, President Voiceprint Labs., Inc. Somerville, New Jersey 08876	"Voiceprint Identification"	2/15/67
Princeton	Prof. Enoch J. Durbin, Prof. of Aerospace and Mechanical Sciences Princeton University Princeton, New Jersey 08540	"A Scientist's View of Viet Nam"	1/10/67

R	E	GI	ON	1 -	Continued

Section	Speaker and Address	Title of Speech	Date Presented
Princeton - Cont.	C. William Woods (Address Unknown)	"Mass Transportation"	12/13/66
	Contact Section Secy.:	20.40	
	Harry L. Cooke		
	RCA Labs.		
	Princeton, N. J. 08540		
	-Bernard J. Lechner, Moderator Cleveland Rd. RD 2	Panel Discussion: "Job Forum"	10/25/66
	Princeton, N. J. 08540	"Job Forum"	
	- Earl Deimund		
	RCA Labs.		
	Princeton, N. J. 08540		
	-Prof. Charles V. Longo		
	Rutgers University		
	New Brunswick, N. J. 08903		
	- Albert H. Medwin		
	RCA Electronic Components & Devices		
	Somerville, N. J. 08876		
	- James Robinson		
	McLean Engineering		
	Princeton, N. J. 08540		
	-Dr. Andrew Sass		
	RCA Labs.		
	Princeton, N. J. 08540		
	C. D. Tuska	"Amateur Wireless to	10/11/66
	401 Mercer Rd.	Amateur Radio 1907 - 1922"	
	Princeton, N. J. 08540		
Providence	R. F. Cook, (Address Unknown) Contact Section Secy.:	"Economics and Reliability of Underground Rural	1/25/67
	Lawrence Urban	Distribution"	
	69 Meadowcrest Drive		
	Riverside, Rhode Island 02915		
ochester	Dr. W. Berg	"Systems Analysis and	1/29/67
	University of Rochester	Pesticides"	
	School of Medicine		
	Rochester, New York 14620		
chenectady	Prof. Vincent J. Schaefer	"Challenging Problems in	11/15/66
	(Address Unknown)	the Atmospheric Sciences'	
	Contact Section Secy.:		
	H. Martin Rustebakke		
	General Electric Co.		
	Schenectady, N. Y. 12301		
	Dr. Edwin R. Gilliland	"Blood Rheology and Anti-	9/29/66
	MIT, 77 Massachusetts Ave.	clotting Surfaces	
	Cambridge, Mass. 02139		
ermont	Prof. George Taylor	"Creative Decision Making"	2/28/67
	Dartmouth College		
	Hanover, N. H. 03755		
	-Dr. John Power	"SST - The Sonic Boom &	2/24/67
	-Robert Power	You''	_/ _ / 0 1
	Federal Aviation Agency	Princeton Universit	
	Washington, D. C. 20553		

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KE	GLON	1 -	Con	tinued

Telegration 1 - Continued			
Section	Speaker and Address	Title of Speech	Date Presented
Vermont - Cont.	Q. W. Simkins, Mgr. System Dev. Div. Lab.	"Magnetic Film Memories"	1/30/67
	IBM Corp. Essex Jct., Vermont 05452		
REGION 1 - SUBSECT	IONS	ennsylvania Burt Miller	
Catskill	Walter K. MacAdam, IEEE P American Tel. & Tel. Co.	res. "Information Retrieval and Man's Ability to Absorb"	1/17/67
	195 Broadway New York, New York 10007	taking delike Socialist Socialist State College and State College	
Fairfield County	Kendall Preston, Jr. The Perkin-Elmer Corp.	"Optical Analog Computers"	3/1/67
	Wilton, Conn 06897		
Talks on 10/18/66 tesearch"	E. W. Harvey, Moderator Pitney-Bowes, Inc. 69 Walnut Street	Panel Discussion: "What is Technological Creativity"	1/31/67
	Stamford, Connecticut 06904	Outem and Dr. A. H. Waynick Penns State-Order addr.	
	A. Henry Morgan, Pres. Electronic Controls, Inc. Wilton, Connecticut 06897	"Creating Markets for New Products"	1/31/67
	Dr. Jack W. Dunlap Chairman of the Board	"The Creative Approach to Novel Problems"	1/31/67
1/25/67	Dunlap and Associates, Inc. Darien, Connecticut 06820		Cincinnati
	Dr. B. J. Rothlein (Address Unknown) Contact Subsection Secy.:	"Creativity in Product Devel- opment"	1/31/67
n Human 1/19/67			
Lynn	Leonard J. Nuttall, Senior Application Engineer, DECO	vacion "Fuel Cells" al suo	2/14/67
	General Electric Company Lynn, Massachusetts		
	Leon J. Weymouth BLH Electronics, Inc. Waltham, Mass. 02154	"Latest Developments in Strain Sensors"	1/17/67
	Irving Kalikow, Consultant General Electric Company	"Flowers in Time Lapse Photography"	10/6/66
	Lynn, Massachusetts	Frank T. O'Brien (Address Unknown)	
Merrimack Valley	Dr. Edward S. Gilfillan, Jr. Lowell Technological Institute	"Where Are We Going in Space"	2/20/67
1 WIII 2/6/67	Lowell, Massachusetts		
	John W. Lazur, Tech. Dir. Communications The Mitre Corporation Bedford, Massachusetts 01730	22050 20"Military Communications Systems Design"	1/16/67
	Massachusetts 01730		

			4
REGION 2			Date
Section	Speaker and Address	Title of Speech	Presented
Canton	Stanley D. McNair Westinghouse Aerospace Elec. Div. P. O. Box 989	"Deep Submergence Why and How"	12/21/66
	Lima, Ohio 45802		
Central Pennsylvania	Burt Miller (Address Unknown)	"Customer Control Switching Arrangement Network"	1/17/67
	Contact Section Secy.:	And Aller W. W. Co. Land Barry, Co. Land Barry	
	Jerry F. Shoup 1411 So. Allen Street		
	State College, Pa. 16801		
73/1/C "Status	Walter Neihoff	"Digital Simulation of Contin-	11/15/66
	(Address Unknown)	uous Systems''	
	Contact Section Secy. (Above)		
	Dr. L. C. Hale, Dr. B. R.	"Open House - Short Talks on	10/18/66
-ayrC is	Kendall, Dr. J. S. Nisbet,	Current Ionosphere Research'	
	Dr. T. A. Seliga, Dr. Robert Quinn and Dr. A. H. Waynick		
	Penn. State University		
	University Park, Pa. 16802		
	Dr. Lee L. Bernel	"Noise and Man"	0/20/66
	Dr. Leo L. Beranek Bolt, Beranek and Newman, Inc.		9/20/66
	50 Moulton Street		
	Cambridge, Mass. 02138		
Cincinnati	Emory C. Rice, Jr.	"Oceanology"	1/25/67
	Westinghouse Corp.	will remain the arm of the builty	
	Deep Stars System Dept.		
	Defense & Space Center Baltimore, Md.		
	nd anomorevens. Draw		
Cleveland	Prof. Robert Plonsey, Prof. James	"Engineering Attack on Human	1/19/67
	B. Reswick, Prof. D. G. Fleming and Dr. Lindan	Disability"	
	Case Institute of Technology		
	Cleveland, Ohio 44106		
Dayton	Dr. W. E. Shoup	"The Road Marked 2000"	1/3/67
Dayton	(Address Unknown)	The Road Warked 2000	1,3,01
th Strain 4/12/67	Cpntact Section Secy.:		The state of the state of
	William R. Jacox		
	2310 Far Hills Ave. Dayton, Ohio 45419		
	Superior Sales 13117		
	Dr. G. Douglas Talbott	"A Prototype for An Inte-	4/6/66
	(Address Unknown)	grated Automated System"	
	Contact Section Secy.(Above)		
	Frank T. O'Brien	"Fuel Cells and Gemini Space	3/3/66
	(Address Unknown)	Craft"	
	Contact Section Secy. (Above)		
Delaware Bay	William Vannah	"Direct Digital Control Will	2/6/67
	Foxboro Company	Improve Process Instrument-	
	Foxboro, Massachusetts 02035	ation"	

REC	HON	2 -	Contin	nued

Section	Speaker and Address	Title of Speech	Date Presented
Delaware Bay - Cont.	Red M. Esta G. Massaco	ey O. Commission (1)	List ones
Delaware Day - Cont.	Fred M. Emens (Address Unknown)	'High Speed Photography as	1/19/67
	Contact Section Secy.:	Applied to Industry'	
	William R. Hitchens		
Emporium-Ridgway	Dr. R. C. Sangster	"The Function of Research in	2/14/67
	Director of Research	Industry"	
	General Tel. & Electronics, Inc.	Schannetady, N. Y.	
	Bayside, New York		
	Di Di Dining di Laboratoria	O. S. Sheets Leader	
	D. D. Doonan	"Defining New Instrument	1/9/67
	Section Head	Characteristics"	
	Bausch & Lomb, Inc.		
	635 St. Paul Street		
	Rochester, New York 14605		
Erie	James J. Walsh	Il Ministers E. 36 T.	2/1/01
	Chief Product Engineer	"Miniature E. M. Inter- ference Filters"	2/16/67
	Erie Technological Products, Inc.	refence Filters"	
	Erie, Pennsylvania		
	H. L. Fruehad		
	K. H. Fleming, Staff Engineer	"Hammermill's Approach to	1/24/67
	Hammermill Paper Company	Computerized Papermaking"	
	Erie, Pennsylvania	Carnogie Postitute of	
ohnstown	Dr. Charles L. Hosler, Dean	Entropy description	
omisto wii	College of Earth and Mineral Sciences	"Engineering the Weather"	2/22/67
	Penn State University		
	University Park, Pennsylvania 16802		
	The state of the s		
	W. L. Custer, Vice President	"New Heating and Cooling	1/17/67
	H. F. Lenz Company	Concepts at Johnstown College	
	Johnstown, Pennsylvania	University of Pittsburgh"	
ehigh Valley -	T. C. Kuehn, Asst. Design Engr.	UH: ~h C 1 D :1 1: "	availage
,	Equipment Section	"High Speed Railroading"	1/13/67
	J. McCarthy, Mgr. of Sales Pro-		
	posal Section - Railway Division		
	Budd Company		
	Red Lion & Verree Road		
	Philadelphia, Pennsylvania 19114		
	Arne Merle Nystuen, Res. Engr.	'Solid State Controls in	
	(Address Unknown)	Appliances"	12/14/66
	Contact Section Secy.:		
	Otto L. Apfelbeck		
	Box 989		r.
	Westinghouse Elec. Corp.		
	Lima, Ohio 45802		
te: Techscal 12/12/66	Bernard Slater, Head of Power	"Sert 11 Program"	11/1///
	Conditioning and Control Section	Jett 11 1 logiani	11/16/66
	NASA Lewis Research Center		
	Cleveland, Ohio		
orth Central Ohio	Dean Harold Bolz	"Engineers Doubt Lat the W	2/22//2
	Ohio State University	"Engineers - Don't Let the World Down"	2/23/67
	1659-2139 N. High Street	Down -	
	Columbus, Ohio 43210		

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Section	Speaker and Address	Title of Speech	Date Presented
Ohio Valley	G. S. Nease, Jr. Appalachian Power Company Roanoke, Virginia	"Underground Residential Distribution"	2/14/67
	Larry Davis C & P Telephone Company Huntington, West Virginia	"NORAD Communications"	1/24/67
Pittsburgh	-G. B. Coover General Electric Company Schenectady, N. Y. 12301 - H. G. Frostick	Panel Discussion: "What Employers Expect of New Engineers"	2/13/67
	U. S. Steel, Inc. Chicago, Ill E. L. Jarrett Duquesne Light Co.		
	435 6th Avenue Pittsburgh, Pa. 15219 - O. B. McMillen		
	Bell Telephone Co. 416 7th Avenue Pittsburgh, Pa. 15219 - J. B. Owens	James J. Walah Chief Product Engine Erie Technological P Erie, Penenglyanian	
	ITE Circuit Breaker Co. Greensburg, Pa. 15601		
	Jesse Quatse Carnegie Institute of Technology Pittsburgh, Pa. 15213	"Terminal Device for A Time Shared Computer"	12/12/66
	Dr. S. W. Herwald Westinghouse Electric Corp. Pittsburgh, Pa. 15230	"IEEE Finances and You"	10/17/66
Sharon	Stephen Kowalyshyn Westinghouse Electric Corp. Baltimore, Md. 21203	"Oceanography"	2/8/67
Southern New Jersey	George H. Mahnken Federal Aviation Agency/NAFEC Atlantic City, N. J. 08405	"Direct Altitude Identity Readout (DAIR) System"	2/16/67
	Anthony D. Bradley Federal Aviation Agency/NAFEC Atlantic City, N. J. 08405	"Introduction of Weather Information to Controller's Display"	2/16/67
	Floyd F. Jones Federal Aviation Agency/NAFEC Atlantic City, N. J. 08405	"Operational and Technical Aspects of the Development of Over-Ocean Separation	2/16/67
	Vernon B. Morris, Jr. Westinghouse Defense & Space Ctr. Baltimore, Md. 21203	Assurance Systems'' "Electrical Subsystems for Post Apollo Lunar Programs	1/19/67
Washington	A. M. Greg Andrus NASA Headquarters 400 Maryland Avenue, S. W. Washington, D. C.	"Broadcast Satellite: Technica Possibilities and Problem Areas"	al 12/12/66
	Dr. John Findlay National Radio Astronomy Observatory Green Bank, W. Va. 24944	"High Resolution Radio As- tronomy"	12/12/66

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Section	Speaker and Address	Title of Speech	Date Presented
Washington - Cont.	A. H. Medwin RCA, Inc.	"Large Scale Arrays (of Integrated Circuits)"	11/14/66
	Rt. 202 Somerville, N. J. 08876		
West Virginia	James B. Potts Communications Satellite Corp. 1835 K Street, N. W. Washington, D. C. 20006	"Satellite and Ground Station Programs"	2/13/67
	J. W. Johnson Eastern Research Laboratories Atlantic Richfield Company	"The Composition of Modern Motor Oils"	1/23/67
REGION 2 SUBSECTIO	Philadelphia, Pa.		
TALE IN THE SECOND SECOND	rake I leveled to see all I had I had		
Annapolis	Irving L. Lindow U. S. Information Agency Voice of America, Inc.	"Another Look at the Voice of America"	2/8/67
	Washington, D. C. 20003	Atlanta, Goorgia 30303	
Upper Monongahela	H. L. Fruehan Westinghouse Electric Corp. Hoult Road Fairmont, W. Va. 26554	"Engineering Techniques in Sealed Beam Manufacture"	1/12/67
Zanesville	Albert R. Waehner Line Material Industries, Inc. 700 W. Michigan Street	"Underground Distribution"	12/8/66
	Milwaukee, Wisconsin 53233		
	Dr. Cornelius Wandmacher Dean of Engineering University of Cincinnati	Student Night: "Engineering"	11/10/66
	Cincinnati, Ohio 45221 William J. Lyone A. E. P. Service Corporation	"Substation Design"	10/13/66
	Canton, Ohio		
REGION 3 SECTIONS			
Alabama	Martin Broadwell Southern Bell Tel. Company	"Trends in Engineering Ed- ucation"	2/13/67
	51 Ivy, N. E. Atlanta, Georgia 30303		
Atlanta	William R. Hill Advanced Power Generation Dept. Southern Services, Inc.	"The Fast Breeder Reactor - Nuclear Power of the Future"	2/20/67
	Birmingham, Alabama 35203		2/22/69

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REGION 3 - Continued	Speaker and Addisse		Date
Section	Speaker and Address	Title of Speech	Presented
Central North Carolina	John I. Barron Southern Bell Telephone Co. P. O. Box 240	"Engineering Considerations of CATV Systems"	2/21/67
	Charlotte, North Carolina 28201		
	J. W. Timko, Head Mathematical Dept. Bell Telephone Laboratories	"The Cathode Ray Tube as a Graphical Input/Output Device"	1/17/67
	Lexington Road Winston Salem, North Carolina		
Central Virginia	J. E. Dorin Thomas Application Engr. Process Automation Engrg. General Electric Company Salem, Virginia 24153	"Automation Progress in the Railway Industry"	1/26/67
	Physical Physics 5214		
Charlotte	J. W. Kingsbury, Area Chief Engr Long Lines American Tel. & Tel. Company 100 Edgewood Av., N. E. Atlanta, Georgia 30303	. "Boston to Miami Underground Cable"	2/13/67
	Dr. Newton H. Barnette, Ch.	"Engineering Education at	1/9/67
	Dept. of Engineering University of North Carolina at Charlotte	U.N.CC.	
	P. O. Box 20428 Charlotte, North Carolina 28202		
Chattanooga	R. T. Elam, Project Engr. Aro, Inc.	"Electrical Engineering Aspects of the Arnold Center'	1/24/67
	Arnold Engrg. Development Ctr. Tullahoma, Tennessee 37388		
Eastern North Carolina	J. L. Wallace, Head Commercial Products Group	"Automatic Data Collection Equipment with Operator Inter-	1/13/67
	Atlantic Research, Inc. Falls Church, Virginia	face" manual state of the manual state of the same of	
	Joseph Rezen Ampex, Inc. Burbank, California	"High Band Video Recording System"	4/22/66
Florida West Coast	Will Connelly, V. P. Marketing Marine Aeoustical Services, Inc. Miami, Florida	"Ocean Electronics"	1/18/67
Fort Walton	Lt. Edward P. Carrigan Div. of Electromagnetic	"Dynamic Reflectivity Measure- ment"	1/5/67
	Warfare Test	Southern Services, Inc.	
	Robert Drexler General Electric Co. Syracuse, New York	"Coherent Optical Processing"	12/1/66
Gainesville	Prof. C. T. Sah Electrical Engineering Dept. University of Illinois Urbana, Illinois 61801	"Recent Developments of Field Effect Transistors 1"	1/19/67

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	REGION 3 - Continued			
0	Section	Speaker and Address	Title of Speech	Date Presente
	Hampton Roads	Chester L. Buchanan Ocean Science & Engrg. Div. Naval Research Laboratory	"Instrumentation for Deep Ocean Research"	2/2/67
		Washington, D. C.		
		William Crosswell Supervisory Electronics Engr. NASA, Inc.	"Antennas for Space Application"	6/16/66 6/17/66 6/18/67
		Langley, Virginia 23365	Silver Springe, Marglan	0/10/01
	Huntsville	Thomas M. Linville General Electric Company 1 River Road	"Engineering for the Human Environment"	2/25/67
		Schenectady, New York 12301		
		Dr. Fridtjof A. Speer NASA, Inc. Huntsville, Alabama 35812	"Operational Aspects of Manned Apollo Launch"	1/11/67
	Jacksonville	Ensign Campbell (Address Unknown) Contact Section Secy.:	"Electronic Systems Used in Oceanography"	1/16/67
		Albert F. Collins 7835 Bellemeade Blvd. Jacksonville, Florida 32211		
	Louisville	James D. Stults (Address Unknown) Contact Section Secy.:	Prize Winning Papers by Students: Designing Instrumentation for Use in Biophysics and the Problems	2/16/67
		Ronald P. Walker Southern Bell Tel. & Tel. Co. Rm. 1016 521 Chestnut Street	Involved"	
		Louisville, Kentucky 40202		
		David Haysley and Leonard	Prize Winning Papers by Students:	2/16/67
		Vanzant (Address Unknown) Contact Section Secretary (Above)	"Fabrication of Diffused Monolithic Integrated Circuits"	1723767
		George Rogers (Address Unknown) Contact Section Secretary (Above)	Prize Winning Papers by Students: "The Triac and Its Application in a Positional Servomechanism"	2/16/67
		Charles Lipschutz and J. L. Krumpelman (Address Unknown) Contact Section Secretary (Above)	Prize Winning Papers by Students: "Understanding Your EKG"	2/16/67
		Ricardo Arguello (Address Unknown) Contact Section Secretary (Above)	Prize Winning Papers by Students: "Analog Simulation of Loaded Beams"	2/16/67
	Memphis	Dr. Otto Schmitt	"Bi-Valent Logic That Is Simul-	2/21/67
		University of Minnesota Minneapolis, Minnesota 55455	taneously Analog and Digital"	
		Theodore L. Weber, Dir. Downtown Memphis Center Division of University Extension The University of Tennessee	"Adult Education"	1/24/67
		Memphis, Tennessee 38103		

REGION 3	- Co	ntinu	ed
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Section	Speaker and Address	Title of Speech	Date Presented
Miami	Robert Richardson General Electric Co. Hendersonville, North Carolina 28739	"Street Lighting, Past, Present, Future"	2/28/67
	A. G. Gilbert, Engr. in Charge Federal Communications Commis- sion Regional Office Miami, Florida	"Activities of F.C.C. Field Engineering Bureau"	1/24/67
	D. F. Curry, Engr. in Charge F.C.C. Eastern T. V. Enforce- ment Unit Silver Springs, Maryland	(Same as Above)	1/24/67
Middle Tennessee	Lt. Cmdr. W. G. Shafer Officer-in-Charge U. S. Navy Fort Belvoir, Virginia 22060	"Support of Science - Antartica"	1/19/67
	Aaron Shelton, Chief Engr. WSM-TV Nashville, Tennessee	"Color Television Broadcasting"	12/15/66
Mississippi	Prof. Charles Farish Electronics Engr. University Medical Center 2500 N. State Street Jackson, Mississippi 39216	"A Heart-Pump Control System"	2/9/67
Mobile	Harold Stevens, Engr. General Radio Company West Concord, Massachusetts 01781	"Sound and Vibration Measuring Equipment"	1/23/67
Nashville	J. D. Styers, Sr. Staff Engr. Southern Bell Tel. & Tel. Co. Nashville, Tennessee	"Processing Telephone Calls Electronically"	2/2/67
New Orleans	Hector P. Boncher, Vice Pres. Dresser Industries, Inc. P. O. Box 718 Dallas, Texas 75221	"The Engineer's Fuzzy Image & What Must Be Done About It"	2/23/67
	E. C. Mericas, Director Marine Education Lykes Bros. Steamship Co. New Orleans, Louisiana	"Automated Ships"	1/12/67
Oak Ridge	James A. Lane, Director of Studies and Evaluation Oak Ridge National Laboratory Oak Ridge, Tennessee 37830	"Outlook for Nuclear Breeders"	2/9/67
Panama City	Dr. E. R. Graf Auburn University Auburn, Alabama 36830	"Antennas and Propagation - Some Fundamental Thoughts on Design"	1/19/67
Pensacola	F. E. Ehrensperger, Principal Engr. Southern Services, Inc. 600 N. 18th Street	"Nuclear Power - Coming of Age"	2/22/67
	Birmingham, Alabama 35203		

REGION 3 - Continued

REGION 3 - Continue	<u>a</u>		Date
Section	Speaker and Address	Title of Speech	Presented
Pensacola - Cont.	Dr. John Reed University of Florida Gainesville, Florida	"University of Florida Con- tinuing Education Program"	2/22/67
	P. M. Perceval University of West Florida Pensacola, Florida	"The Technological Impact of University of West Florida on This Area and the State of Florida"	
Savannah	Dr. James L. Caldwell	"Tech. in Colombia"	2/25/67
	Georgia Institute of Technology 225 North Avenue, N. W. Atlanta, Georgia 30332	William Witterson Southern Bell Telephone Feducals, Kentucky \$2001	
South Carolina	Dr. J. Taylor, Moderator University of South Carolina Columbia, South Carolina 29208 - Dr. R. G. Fellers University of South Carolina	Panel Discussion: "Trends in Engineering Education"	11/18/66
	Columbia, South Carolina 29208 - Col. Oren Herring The Citadel Charleston, South Carolina		
Western North Carolina	Forrest H. Leathers The Foxboro Company Atlanta, Georgia	"Intrinsic Safety"	1/24/67
Winston-Salem	J. P. Epperson Western Electric Company, Inc. Princeton, N. J. 08540	"New Laser Developments for Manufacture"	1/19/67
REGION 3 SUBSECTI	ONS		
Macon-Warner Robins	Jack Colbath Bibb Manufacturing Company 237 Main Street	"Electronics in the Textile Industry"	2/27/67
Muscle Shoals	Macon, Georgia 31201 James V. Shell General Electric Company Birmingham, Alabama	"New Light Sources"	1/23/67
	William E. Yielding	"Automated Medicine"	11/9/66
	Ted Wilson Fed. Electric Company Huntsville, Alabama	"Electromagnetic Compat- ibility Technology"	10/24/66
	Clarence A. Smalling Reynolds Metals Company Sheffield, Alabama 35660	"Wire and Cable Manufacturing"	9/26/66

REGION 3 - Continued			Date
Section	Speaker and Address	Title of Speech	Presented
rida Con- 2/22/87	D. J. of Clark	"Price Level Depreciation"	1/10/67
Northeast	Robert Clark Southern Bell Tel. & Tel. Co.	October allivasation	
Mississippi	51 Ivy, N. E.		
	Atlanta, Georgia 30303		
	waw to wherever of Was	"The Need for Technology in	2/21/67
Paducah	Dr. Robert A. Charpie	Industrial Growth'	
	Union Carbide Co. 270 Park Avenue	Industrial Grant	
	New York, New York 10017		
	Distriction logic in Charge	Contata Institute of Tuchmo	1/17//7
	William Hicks	"The Far Sound"	1/17/67
	Southern Bell Telephone Co.		
	Paducah, Kentucky 42001		
Piedmont	Roy Hoffman	"Electrical Concepts in Sub-	1/19/67
1 Teditione	Newport News Shipbuilding and	marine Acoustical Research"	
	Drydock Company		
	Norfolk, Virginia		
	Harry Halland Charles 2007	"Manufacture of Tantalum	12/29/66
	Harry Holland Oual. Assurance	Capacitors"	
	Union Carbide Co.	Charleston, South Carolina	
	Greenville, South Carolina		
	D. I Dahling	"Is Engineering as Important	2/21/67
Rome	Paul Robbins (Address Unknown)	as We Think It Is"	W.maten W
	Contact Subsection Secy.:		
	Edgar J. Swint		
	418 East Eighth Street		
	Rome, Georgia 30161		
	Thomas Twomey	"90 Ways to Reduce the Sound	1/17/67
	General Electric Company	of Transformers"	
	Rome, Georgia 30161		
		um chill a carri	1/19/67
Upper East Tennessee	W. R. Turnbull	"The Crossbar Switch - Con- struction, Reliability and	1/19/07
	North Electric Company Johnson City, Tennessee 37601	Applications"	
	Johnson City, Telmessee 31001	Macon, poseM	
	Archie Gann	"Computer Applications in	11/1/66
	(Address Unknown)	Color Control"	
	Contact Subsection Secy.:		
	Henry R. Godsey		
	1073 Velma Street Kingsport, Tennessee		
	Kingsport, Telmessee		
	Honorable James H. Quillen	"The Role of the Engineer as a	9/8/66
	(Address Unknown) Contact	Citizen in Civic and Public	
	Subsection Secretary (Above)	Affairs"	
DECION A SECTIONS			
REGION 4 SECTIONS			ma 1/19/67
Arrowhead	H. J. Basil, Robert Reese	"Adaptation of Vacuum Inter-	11/17/66
	(Addresses Unknown)	rupter Switching for Large	
	Contact Section Secy.:	Motor Drives"	
	Wayne A. Wilson		
	2413 Hughitt Avenue Superior, Wi. 54880		
	Superior, W. 51000		
	Warren Henderson	"Varitrac Process Control"	10/12/66
	(Address Unknown)		
	Contact Section Secv. (Above)		

Section	Speaker and Address	Title of Speech	Date Presented
Central Illinois	Alan Mattal, Sales Engr. Fairchild Semi-Conductor, Inc. Mountain View, California 94040	"Microcircuit Technology"	1/17/67
Central Indiana	Dr. Howard W. Gillen Indiana University Bloomington, Indiana 47401	"Medical Electronics"	2/9/67
Central Iowa	Edward Hines, Mgr. Engineering Research Dept. Detroit Edison Company Detroit, Michigan	"Secondary Batteries for Vehicle Propulsion"	e 1/19/67
Illinois Valley	E. C. Heppe	"Electronic Switching"	2/2/67
73\51\1 10 10	Central Office Foreman H. K. Windland, Wire Chief Illinois Bell Telephone Co. Peoria, Illinois	Dri Desald Novemy University of Wisconsin Madison, Wisconsin 51705	272707
Iowa-Illinois	Robert Sieger Matt Weir Federal Aviation Authority Omaha, Neb.	"Air Traffic Control"	1/17/67
	Citata, 1465.		
Madison	Prof. A. C. Scott University of Wisconsin Dept. of Electrical Engineering Madison, Wisconsin 54306	"Lasers, Holograms and Flash- lights"	2/28/67
Nebraska	Dean John R. Davis	"Stature of the Engineer in Today	1- 2/22//7
	College of Engineering University of Nebraska Lincoln, Nebraska 68503	Highly Technical Society"	7'S 2/23/67
	Prof. G. F. Schrader, Dir. of Technical Services University of Nebraska Lincoln, Nebraska 68503	"Emergence of Systems Approach to Industrial and Economic Deve ment in Nebraska"	h 2/23/67 lop-
	Dr. Donald O. Clifton University of Nebraska Lincoln, Nebraska 68503	''What You Do Makes a Difference	e'' 1/19/67
Northeast Michigan	Richard Seymour Asst. Systems Engr. IBM Corporation Flushing, Michigan 48433	"Computers in Industry"	1/19/67
North eastern Wisconsin	Harold N. Miller, Chief Engr. Associated Research, Inc. 3758 W. Belmont Street Chicago, Illinois 60618	"High Voltage Insulation Testing"	3/2/67
	William Sackman, Mgr. of Engrg. Reliance Electric Company Ashtabula, Ohio 44004	"Motor Insulations"	2/2/67
Rock River Valley	Robert Bergner, Mgr. Systems and Data Processing Ingersoll Milling Machine Co. Rockford, Illinois	"Introduction to Computers"	1/26/67

Contact Section Secy. (Above)

REGION 4 - Continued			Date	
Section	Speaker and Address	Title of Speech	Presented	
Siouxland	Dr. Edward Q. Moulton, Pres. University of South Dakota Vermillion, South Dakota 57069	"The Importance of a Scientific Education"	2/9/67	
	Kenneth K. Dols, Supervising Engr. Relay and Communications Northern States Power Company 414 Nicollet Avenue Minneapolis, Minnesota 55401	"A System Control Center for an Electric Utility"	11/30/66	
South Bend	Dr. Thomas Bergin Dean of Continuing Education Notre Dame University Notre Dame, Indiana 46556	"Continuing Education for the Engineer"	2/16/67	
	Dr. Donald Novotny University of Wisconsin Madison, Wisconsin 53706	"Solid State Speed Control of Small Induction Motors"	1/12/67	
West Michigan	Marshall Pines, District Scientific Marketing Representative International Business Machines Chicago, Illinois	"The Computer and the Engineer"	2/22/67	
REGION 4 SUBSECTIO	NS Description			
Burlington	George Hixenbaugh, Chief Engr. WMT Broadcasting, Inc. Cedar Rapids, Iowa	"Transmitting in Color"	1/12/67	
REGION 5 SECTIONS				0
Arkansas	Dean George F. Branigan University of Arkansas College of Engineering Fayetteville, Arkansas 72701	"Engineering for the Human Environment"	2/17/67	
Beaumont	Prof. Robert Carlin Lamar State College of Technology Beaumont, Texas	"Theory of Switching Logic"	11/8/66	
Central Texas	Dr. Carl R. Wischmeyer Dept. of Electrical Engineering Rice University Houston, Texas 77001	"Hard Superconductivity and High Strength Magnets"	2/9/67	
Corpus Christi	Russell Savage, Engr. Southwestern Bell Telephone Co. Houston, Texas	"Aids to High School Science"	1/19/67	
Dallas	Lamar W. McLead Westinghouse Electric Corp. Dallas, Texas	"Opportunities in Change"	2/14/67	
	Charles W. Wooldridge, Vice Pres. Texas Power and Light Company Dallas, Texas	"Power and Progress"	1/10/67	
El Paso	T. Thorkelson Texas Instruments, Inc. Dallas, Texas	"Micro Electronic Techniques and Integrated Circuits"	11/17/66	•

Freeport :

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Section	Speaker and Address		Date Presented
South Plains - Cont	Dr. Magne Kristiansen Texas Technological College Lubbock, Texas 79409	"Plasmas"	1/9/67
Tulsa	Konrad Schoebel Precision Instruments Co. Palo Alto, California	"Laser Tape Recording System"	2/21/67
	Dr. Julian D. Tebo Bell Telephone Laboratories 463 West Street	"Materials Engineering at Bell Telephone Laboratories"	1/18/67
	New York, New York		
REGION 5 SUBSEC	TIONS		
Black Hills	Prof. Carl Gruber South Dakota School of Mines and Technology Rapid City, South Dakota 57701	"Continuous Wave Gas Laser"	10/20/66
Freeport	Keith Switzen Erico Products, Inc. 2070 East 61st Place Cleveland, Ohio	"Splicing Power Cables with Cadweld"	1/30/67
Lake Charles	H. N. Hickok General Electric Co. Houston, Texas	"Theory and Application of Silicon Control Rectifiers"	1/16/67
	Les Eidson Westinghouse Corp. Houston, Texas	"Large Synchronous Motors - Their Application, Protection, Affects on Power Systems and Design"	12/12/66
	John R. Demarest NASA, Inc. New Orleans, Louisiana	"The Role of the National Aero- nautics and Space Administra- tion's Michould Assembly Facility in the United States Manned Lunar Landing Program	
Monroe	T. E. Flukinger (Address Unknown)	"Taking the Mystery Out of Process Computers"	1/17/67
Tenks	Contact Subsection Secy.: Howard S. Orcutt Rt. 4 Box 78 Monroe, La. 71205		
	Miss LaLuce Thompson Louisiana Power & Light Co. West Monroe, La. 71291	"Modern Electrical Homes and Appliances"	12/20/66
Pikes Peak	Dr. K. Erickson Kaman Nuclear Division The Garden of the Gods Road	"Production Facilities of Kamar Nuclear"	1/24/67

REGION 5 - Continued		- Continued	REGION
Subsection	Speaker and Address	Title of Speech	Date Presented
Victoria-Port Lavaca	Joseph E. Leavines, Head Electrical Division Thermon Manufacturing Corp. P. O. Box 34548 Houston, Texas 77001	"Electrical Heat Tracing"	11/17/66
	W. L. Skaggs, Systems Consultant Foxboro Company Houston, Texas	"Process Control Computers and Direct Digital Control"	10/27/66
	H. C. Scott, District Manager Louis-Allis Company Houston, Texas	"Who Is on First Base?"	9/29/66
REGION 6 SECTIONS			
Alamogordo- Holloman	Lawrence W. Gardenhire Senior Scientist Radiation, Inc. Melbourne, Florida 32901	"Adaptive Telemetry"	2/16/67
	George Streandor	"Universal Spectography"	1/26/67
d the 10/12/66 Athe 10/12/66 Atherenance	Sunspot Observatory Sunspot, New Mexico 88349		
Alaska Taolow 10	(Address Unknown) Contact Section Secy.: Allen C. Diershaw 1637 Alder Drive	"Microwave Radio Applications"	2/13/67
	Anchorage, Alaska 99504 Melvin Halversten City of Anchorage	"Traffic Controlling in Anchorage"	1/9/67
	Anchorage, Alaska		Fort ilus
	Bruce S. Angwin 3300 Colby Avenue Los Angeles, California 90066	"Faith in the Fantastic Future"	12/12/66
sover - inbox si	Stanley Stanfield Chugach Electric Association Anchorage, Alaska	"Beluga Power Generation and Distribution Project"	11/14/66
	Dr. Hugh Chivers, William E. Little and Stephan Maagoe (Addresses Unknown)	"Solar Flare Disturbance Effects"	10/10/66
	Contact Section Secretary (Above)		
	Arthur Jess, Head-Design Branch Corps of Engineers Box 7002 Anchorage, Alaska 99501	"Design of Snettisham Dam"	9/19/66
Antelope Valley	Milton O. Thompson NASA Test Pilot NASA Flight Research Center Edwards AFB, California 93523	"Lifting Body Flight Testing Program: Past, Present, Future"	12/16/66

REGION 6 - Continued			Date
Section	Speaker and Address	Title of Speech	Presented
Boise	John Kimball, Sr. Vice Pres. Electric Bond & Share Co. 2 Rector Street New York, New York 10006	"Engineering for Human Environment"	2/4/67
	Clifford Bissell Idaho Power Company Boise, Idaho	"Salient Points in Hells Canyon Dam Site Construction"	1/10/67
Buenaventura	C. E. Hanes Philco/Ford, Inc. Vandenberg AFB, California 93437	"Stable Ocean Platform for In- strumentation"	2/8/67
	J. C. Cline (Address Unknown) Contact Section Secy.:	"Surface and Sub-Surface Acoustic Navigation"	1/11/67
	Edward E. Angle 71 Mansfield Lane Camarillo, California 93010		
	Robert Denton, (Address Unknown) Contact Section Secretary (Above)	System"	11/9/66
	K. V. MacKenzie, Elec. Engr. Deep Submergence Group	"Deep Submergence and the Trieste"	10/12/66
China Lake	James E. Love, X-15 Program Mgr. NASA, Inc. Edwards AFB, California 93523	"X-15 Flight Test Program"	1/19/67
Foothill	Dr. Leonard B. Gardner, Pres. Consulting Scientists, Inc. P. O. Box 2130, Toluca Lake Station North Hollywood, California 91602	"The Close-In Effects of Nuclear Detonations on Electrical Distri- bution Equipment"	1/17/67
Fort Huachuca	Robert H. Crosby AVCO Electronics Division 2630 Glendale Milford Street	"Synthesizers"	1/26/67
Idaho has nos	A. V. Grimaud Phillips Petroleum Company P. O. Box 2067 Idaho Falls, Idaho 83401	"Present Goals for Data Acquisition"	. 5/18/66
	(Address Unknown) Contact Section Secy.: Fred O. Urban 575 Wabash Avenue	"Dataplotter Systems"	5/18/66
	Idaho Falls, Idaho 83401 D. R. Bristol (Address Unknown) Contact Section Secy. (Above)		5/18/66

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REGION 6 - Continued			Date
Section	Speaker and Address	Title of Speech	Presented
Idaho - Cont.	George Kirk Humble Oil Company	"Refinery Central Control"	4/13/66
	Ralph S. Gens Bonneville Power Administration Idaho Falls, Idaho 83401	"The Application of HVDC for the Transmission of Large Blocks of Power"	3/9/66
	R. Moore Ralph M. Parsons Co. Los Angeles, California	"North American Water & Power Alliance"	2/24/66
	F. R. Tamaro Electric Boat Co. Groton, Conn. 06340	"The Nuclear Submarines"	2/9/66
Las Vegas	Rex A. Tynes Nevada Power Co. 4th Street & Stewart Ave. Las Vegas, Nevada	"Registration for Professional Engineers"	
	Dr. John V. N. Granger Granger Associates, Inc. 1601 California Avenue Palo Alto, Cal. 94304	"Electronic Activities in the Antarctic"	1/23/67
Metropolitan Los Angeles		"The Laser"	1/10/67
	F. J. Bowerman Matthias MacDonald (Addresses Unknown) Contact Section Secy. (Above) - Charles Fanwick, System Development Corp., 2500 Colorado Avenue, Santa Monica, California	"Electronic Systems in State Government"	11/29/66
Portland	Heber Badger The Boeing Co. Seattle, Washington	"The Boeing Supersonic Transport"	
	Eugene C. Starr Bonneville Power Administration P. O. Box 3621 Portland, Oregon 97208	"Gigawatts and Megameters"	11/21/66
Richland	E. J. Harrington, Moderator Donald Gillies and Fred Schaufelberger Bonneville Power Administration	Symposium: "EHV AC Power Administra- tion"	2/14/67
	USDI Federal Building Portland, Oregon		

REGION	6 -	Continued
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Section	Speaker and Address	Title of Speech	Date Presented
Richland - Cont.	Prof. R. H. Fleming University of Washington Seattle, Wash. 98105	"Oceanography-The New Frontier"	1/17/67
San Fernando Valley	Daniel T. Stowell U. S, Navy Marine Corp., Point Mugu Port Hueneme, Cal. 93041	"NEMO - The Edreobentic Vehicle"	1/18/67
San Gabriel Valley	David R. Tollefson Electro-Optical Systems, Inc. 330 N. Halstead Street Pasadena, Cal. 91107	"Megawatt Ion-Propulsion Power Conditioning Systems"	2/15/67
	Dr. Charles F. Richter California Institute of Technology 1201 E. California Boulevard Pasadena, Cal. 91109	"Earthquake Risk and Engi- neering Responsibility"	1/18/67
Santa Barbara	Harry W. Brelsford (Address Unknown) Contact Section Secy.: Dr. Kenneth L. Kotzebue Univ. of California Dept. of Electrical Engineering Santa Barbara, Cal. 93106	"What Employee Engineer Should Know About Patents"	2/13/67
	Dr. Theodore F. Gautschi Jet Propulsion Laboratory 4800 Oak Grove Drive Pasadena, Cal. 91103	"Unmanned Lunar Explora- tion"	1/16/67
	Robert F. Hummer Santa Barbara Research Center Santa Barbara, California	"Electro-Optical Sensors for Meteorology Satellites"	12/12/66
	Dr. John Mero Ocean Resources, Inc. La Jolla, Cal. 92037	"Resource Potential of the Sea"	11/14/66
	David S. Fields General Electric Co. TEMPO Santa Barbara, California	"Cost/Effectiveness Analysis: Its Tasks and Their Interrela- tion"	10/19/66
Santa Monica Bay	Lionel Rovner Brain Res. Institute UCLA Westwood, Cal. 96137	"Use of Computers in Neuro- physiological Research"	1/9/67
	Dr. Glen H. Egstrom Performance Physiology Lab. UCLA Westwood, Cal. 96137	"Working Under the Sea"	12/12/66
	Dr. Gershon Weltman Biotechnology Laboratory UCLA Westwood, Cal. 96137		

REGION 6 - Continued

REGION 6 - Continued			
Section	Speaker and Address	Title of Speech	Date Presented
South Bay Harbor	L. Gostafson Hughes A/C, Inc. Los Angeles, California	"Advanced Technical Satellite, An Overview"	2/21/67
	Capt. R. Eaglet (Address Unknown)	"Vietnam"	1/17/67
	Contact Section Chairman: Richard Lepper 711 Larson Street Manhattan Beach, Cal. 90266		
	Paris Books and St. 70200		
	Philip Horwith TRW, Inc. Redondo Beach, California	"Attacking Civil and Social Problems with Aerospace Techniques"	11/15/66
Spokane	Dean Jackson Electrical Design Supervisor	"There Is Something New In Aluminum Making"	1/19/67
	Kaiser Aluminum and Chemical Corp. Trentwood, Washington 94218	Clara Valley Dr. Robert E. Cor 1/2 gen und mi generundundausemi	
	Douglas Dodds, District Engr. Westinghouse Electric and Mfg. Co.	(Same as Above)	1/19/67
	Spokane, Washington		
Tucson	W. Erhlsam, Senior Engr. Motorola Semiconductors, Inc.	"Linear Integrated Circuits"	2/14/67
	Phoenix, Arizona		
	Dr. R. Mattson University of Arizona Tucson, Arizona	"Micro Electronics at The University of Arizona"	1/17/67
Vandenberg	Major General John B. Bestic Deputy Director Defense Communications Agency USAF Washington, D. C.	"The National Military Command Center"	2/27/67
	Dr. William Welch, Chief Scientist Motorola, Inc. Phoenix, Arizona	"Some Things I Don't Know About Anything"	1/18/67
Wenatchee	George M. Frese (Address Unknown) Contact Section Secy.: Eugene B. Hall Box 221 Wenatchee, Washington 98801	"A Method of Modulating An AM Broadcast Transmitter to Increase Its Effective Power By Ten Times"	1/30/67
REGION 6 SUBSECTION			
	ome		*
Butte	Leonard Decco, Distribution Engr. Montana Power Company Butte, Montana 59701	"The Economic Selection of Con- ductor Size"	2/16/67
East Bay	Dr. John Mero Ocean Resources, Inc. La Jolla, California 92037	"Review of the Modern History of Oceanography"	2/28/66
Eugene	Dr. Neal Cook, Dir. Fuel Cell Development Division Allis Chalmers Company Milwaukee, Wisconsin	"Fuel Cells and Their Industrial Uses"	2/15/67

REGION 6 - Continued			Date
Subsection	Speaker and Address	Title of Speech	Presented
Los Alamos	Dr. Howard B. Demuth Los Alamos Scientific Lab.	"Digital Process Computer for UHTREX"	1/25/67
	P. O. Box 1663 Los Alamos, New Mexico 87544		
Reno	Prof. Curtis Russell University of Nevada Reno, Nevada 89507	"Types, Causes and Control of Snow Avalanches"	1/19/67
San Joaquin	Hugh W. Van Ness (Address Unknown) Contact Subsection Secy.: Charles S. Viss Box 1371 Modesto, Calif. 95350	"Sherwood Project"	2/9/67
Santa Clara Valley	Dr. Robert L. Goulding Carmel, California 93921	"Adult Psychology"	11/12/66
Shasta	Edwin Lambert Gordon Sparrowe P. G. & E. Aerojet General, Inc. Sacramento, California	"Engineering and Construction of P.G. & E. KV 500 Line"	5/26/66
Walla Walla	Everett J. Harrington, Moderator Donald Gillies and Fred Schaufelberger Bonneville Power Administration USDI Federal Building Portland, Oregon	Symposium: "EHV AC Power Transmission"	2/14/67
	Kermit Duncan, Asst. Area Engr. William Murrills, Meter Foreman Pacific Power and Light Company Walla Walla, Washington 99362	"Underground Distribution"	1/26/67
REGION 7 SECTIONS	Oniel Scientists on "Square Halance I D		
Bay of Quinte	Lorne A. Keyes RCA Victor, Inc. 1005 Lenoir Street Montreal, Quebec, Canada	"Canadian Spacecraft"	1/17/67
	Dr. Reuven Kitai McMaster University Hamilton, Ontario, Canada	"A Statistical Analyzer for Slowly Varying Signals"	12/1/66
	Dr. E. L. Thomas, Assoc. Dir. Institute of Bio-Medical Electronics University of Toronto Toronto, Ontario, Canada	"Human Factors Engineering"	11/23/66
	Ian R. Davidson Northern Electric Co. R. and D. Laboratories Ottawa, Ontario, Canada	"Silicon Microcircuits"	10/18/66
Canadian Atlantic	W. C. Hancock, Chief Production Engr EMI-Cossor Electronics Ltd. Woodside, Nova Scotia, Canada	. "Materials and Processes Used in the Electronics Industry"	1/18/67

RE	GION	7 -	Continued

REGION / - Continue	<u>a</u>		Date
Section	Speaker and Address	Title of Speech	Presente
Waterloo	H. J. Davis Federal-Packard Electric Limited Industry Street Toronto 15, Ontario, Canada	"Fuel Cells for Commercial Applications"	2/13/67
	Dr. Colin A. Franklin Defense Res. Telecommunications Establishment Shirley Bay, Ottawa, Ont., Canada	"The Alouette/ISIS-A Earth Satellite Program"	1/13/67
London (Canada)	Prof. Ling Y. Wei University of Waterloo Waterloo, Ontario, Canada	"Frog, Squid and Man"	2/23/67
Montreal	Dr. J. T. Henderson National Research Council Ottawa, Ontario, Canada	"The International Aspects of Canadian Measurements"	10/19/66
Niagara Inter- national	Frank T. Egan Electronic Design Magazine Hayden Publishing Company 850 3rd Avenue New York, N. Y. 10022	"Is There A Bug in Your Rug"	2/2/67
	Patrick Freeborn Ontario Hydro, Inc. London, Ontario, Canada	"Underground Distribution- Present Status and Trends"	1/19/67
Ottawa	Keith Mosher (Address Unknown) Contact Section Secy.: Robert Hobner	Prize Winning Papers by Students: "Transistorized Phase Sensitive Amplifier"	2/7/67
	Ottawa 13, Ont., Canada Cadet H. G. Williams Royal Military College of Canada Kingston, Ontario, Canada	"Economical Organ Tone Generators"	" 1/24/67 geginalW
	Chung Wo Chin University of Ottawa Ottawa, Ontario, Canada	"Pattern Recognitions Using Threshold Elements"	2/10/67
	Keith Harman Queens University Kingston, Ontario, Canada	"Digital Analog Conversion"	II
	Leroy Pearce Carleton University Ottawa, Ontario, Canada	"Corona Loss on DC Transmission"	2 ii) 0767
Regina	Mr. Stevens Phillips Corporation Toronto, Ontario, Canada	"Color It Faithful"	12/7/66

Woodside, Nova Scotia, Canada

REGION 7 - Continued

Section	Speaker and Address	Title of Speech	Date Presented
Regina - Cont.	H. W. Haberl Hydro Quebec, Inc. Montreal, Quebec, Canada	"Hydro Quebec EHV Trans- mission System"	11/8/66
	L. McBride Station CKCK TV Regina, Sask., Canada	"The Marquis TV Trans- mission System"	11/3/66
	A. T. Derry Saskatchewan Power Corporation Regina, Sask., Canada	"Economic and Technical Aspects of Generation Planning"	10/18/66
St. Maurice	Prof. Real Boucher Quebec Hydro Power Commission 75 Dorchester Street, West Montreal, Quebec, Canada	"The Gentilly Nuclear Power Plant"	1/25/67
Southern Alberta	Dr. Brian G. Wilson Dept. of Physics The University of Calgary Calgary, Alberta, Canada	"Cosmic Ray Research"	2/21/67
Toronto	J.C.R. Punchard Northern Electric R & D Labs. Ottawa, Ontario, Canada	"Integrated Circuits and Their Impact on the Electrical In- dustry"	2/20/67
Victoria	E. P. Ehmayer R. H. Hill I. P. E. C. Ltd. Vancouver, B. C., Canada	"Sub Station Equipment and Supervisory Control, Portage Mtn. Gen. Station"	2/2/67
	Lindsay M. Hovey Manitoba Hydro, Inc. P. O. Box 815 Winnipeg, Manitoba, Canada	"Generation and Transmission Aspects of Phase 1 of Nelson River Development"	1/17/67
Winnipeg	Harold Wright Canadian Broadcasting Corporation Ottawa, Ontario, Canada	"Problems of Color Television"	1/23/67
	Lindsay M. Hovey Manitoba Hydro, Inc. P. O. Box 815 Winnipeg, Manitoba, Canada	' ''Generation and Transmission Aspects of the Nelson River Project''	12/1/66
	H. W. Haberl Hydro Quebec, Inc. Montreal, Quebec, Canada	"HVAC and HVDC Transmis- sion Systems"	11/7/66
	Dr. Werner Von Braun NASA Washington, D. C.	"The NASA Space Program"	10/13/66

REGION 7 - Continued

REGION 7 - Continue	<u>d</u>		REGION
Subsection	Speaker and Address	Title of Speech	Date Presented
Guelph	H. J. Davis, Engr. Res. Dept. Ferranti-Packard Electric Ltd. Industry Street Toronto 15, Ontario, Canada	"Fuel Cells for Commercial Applications"	2/13/67
	A. Mundy Robert Morse Company Toronto, Ontario, Canada	"Numerical Control of Machine Tools"	1/17/67
REGION 8 SECTIONS	notteo from moro Co. nesc studi from nidd T. 11020 (n		
Egypt	Eng. Yehia Ali Hussin, Res. Engr. Organsiation for BC & TV P. O. Box 1186 Cairo, Egypt	"Technology of Semicon- ductor Applications Part 1"	2/14/67
	Pierre Allert (Address Unknown) Contact Section Secy.: Abdel-Latif I. Ahmed Television Building P. O. Box 1186 Cairo, Egypt, UAR	"Modern Developments in the French Electrical Power Systems"	2/11/67
	A. V. Miroliubov, Dir. (Address Unknown) Contact Section Secy. (Above)	"The High Dam 500, 220 and 132 KV Networks"	2/7/67
France	L. A. Wan (Address Unknown) Contact Section Secy.: A. J. Profit, C.N.E.T. 3, Ave. De La Republique	"Radar Signal Design Tech- nique using Z Transforms"	2/21/67
	92 Issy Les Moulineaux, Fr.		
	J. C. Knorr (Address Unknown)	'Reliability - A Case Study'	1/24/67
REGION 9 SECTIONS	Contact Section Secy. (Above)		
Puerto Rico - Virgin Islands	R. Rivera Alverio, R. Rodriguez Font, Julio Negroni Puerto Rico Water Resources Authorit San Juan, Puerto Rico	"Past, Present and Future of URD"	2/10/67
	Mario Franceschini, Pres. Mario R. Franceschini, Inc. San Juan, Puerto Rico	"Trends in URD Equipment"	2/10/67
	C. G. Gnerre (Address Unknown) Contact Section Secy.: Rafael A. Rivera A.	"Sodium Filled Cables"	1/10/67
	628 Centauro Altamira, Puerto Rico 00920		
	(ASA		

REGION 10			
Section	Speaker and Address	Title of Speech	Date Presented
Tokyo	(Address Unknown)	"Present Trends in Electronic Research"	11/19/66
	Tokyo, Japan		
	Dr. Harold A. Rosen (Address Unknown) Contact Section Secy. (Abov	"Communication Satellites and Their Application"	9/26/66
	* Engr. "Technology of Semi-		
	Dr. R. H. Meinken (Address Unknown) Contact Section Secy. (Abov	"Recent Progress in Magnetic Materials Development" e)	5/18/66

AEROSPACE & ELECTRONIC SYSTEMS - GROUP CHAPTER MEETINGS

	AEROSPACE & ELECTRONIC SYSTEM	IS - GROUP CHAPTER MEETINGS	
REGION 1	Speak #436404 to AREL		
Section	Speaker and Address	Title of Speech	Date Presented
Boston	William Denhard	"Inertial Navigation"	1/12/67
	M.I.T. Instrumentation Lab. Cambridge, Mass. 02139		
	Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. 11020	"Low Cost Phased Array Radars"	11/17/66
New York (Metropolitan)	Seymore Zitonsky General Precision Inc. Wayne, New Jersey 07470	"Navigation Systems from the Ark to Apollo"	12/8/66
	F.W. Piper Aircraft Radio Corp. Boonton, New Jersey 07005	"Auto Pilots & The Gyro"	11/19/66
Rochester	William S. Holmes Cornell Aeronautical Labs., Inc.	"The Role of Cornell	11/17/66
	Buffalo, N. Y. 14225	Aeronautical Lab in Gov't Sponsored Research'	
	Dr. Michael L. Dertouzos MIT, 77 Mass Ave. Cambridge, Mass. 02134	''Electronic Circuit Design via Multiple Access Computer	9/22/66
Syracuse	John C. Mercer F.A.A., RD-100 Washington, D.C. 20553	"Electronic Applications to Air Traffic Control"	2/9/67
REGION 2			
Baltimore	Neal A. Blake F.A.A. Washington, D.C. 20553	"Air Traffic Control Automation"	2/13/67
	David Houston Westinghouse Electric Corp. Baltimore, Md.	"Underwater Acoustics and Sonar Systems"	1/17/67
Lima	T.M. Heinrich Westinghouse Electric Corp.	"Solid State Motor Speed Control"	1/18/67
	Pittsburgh, Pa.		
	Frank Hunting Westinghouse Electric Corp. Baltimore, Md.	"Torpedo Electric Power Systems - Past and Future"	10/19/66
Washington	A. M. Greg Andrus NASA Washington, D. C.	"Broadcast Satellite: Technical Possibilities and Problem Areas"	12/12/66
REGION 3			11/17/403008
Orlando	Walter Barney NASA Kennedy Space Flight Center	''Launch Data Handling System''	1/18/67
	Cape Kennedy, Florida 32920		

Cape Kennedy, Florida 32920

REGION 4	CEMS . GROUP CHAPTER MUSTINGS		Date
Section	Speaker and Address	Title of Speech	Presented
Southeastern	John F. Lewis	"The Apollo Lunar Surface	1/26/67
Michigan	Bendix Aerospace Sys. Div.	Experiments Package"	
	Ann Arbor, Michigan		
	"north given laby and	Aid-d Desision	1/17/67
Twin Cities	Dr. Arnold Kanarick Minneapolis Honneywell	"Computer Aided Decision Making"	1/1//0/
	Minneapolis, Minn.		
REGION 6			
T A1	Dr. Franklin Harris	"Holography"	1/17/67
Los Angeles Council	Aerospace Corp.	valence a acomy a	New York
Council	El Segundo, Calif. 90245		
	Mainten		Marie Director
	- Col.David V. Miller	"Electronics for Space -	12/17/66
	USAF Space Systems Div.	the Long Perspective"	
	El Segundo, Calif. 90245	"F-111 Mark II Avionics	11
	- Dr. Richard Smyth	System"	
	North American Aviation, S&ID	System Sending	
	Downey, Calif.		
San Diego	LTCDR Ping, and Lt. Killinger	"Description and Demon-	11/16/66
San Brego	(Addresses unknown, contact	stration of the 14A6 and	
	Section Secretary):	14A2A Antisubmarine	
	O. Everett Wiedmann	Warfare Trainers"	
	Pacific T. & T. Co.		
	1475 Sixth Avenue		
	San Diego, Calif. 92101		
	Dr. Lawrence J. Fogel	"Control System Design	9/21/66
	Decision Science, Inc.	Through Simulated	
	4508 Mission Bay Drive	Evolution"	
	San Diego, Calif. 92109		
		Neal A. Blake	Appropriate Approp
San Francisco	William W. Chiang (address	''Surveyor Systems	10/27/66
	unknown, contact Section Secy.):	Engineering Aspects	
	John E. Barkle, Jr.	of Surveyor Project"	
	Bechtel Corp., PO Box 3965 San Francisco, Calif. 94119		
	San Francisco, Cani. 71117		
REGION 7			
1/18/67			activity.
Ottawa	A. G. Breckenridge	"Real Time Computer	10/18/66
	Collins Radio Co. of Canada, Ltd.		
	150 Bartley Drive	Operational File"	
	Toronto 16, Ont., Canada		
	ANTENNAS & PRO	PAGATION	
	Broadcast Satellite:	A. M. Greg Andrus	
REGION 1			
	and Problem Areas"	Washington, D. C.	2/15//5
Boston	- Thomas J. Vaughan	"Design Factors of Large	2/15/67
	Antennas Consultant Engineers	Tracking Antennas'	
	92 Hilton Street		
	Manchester, N.H. 03104	"Radar Astronomy Obser-	11
	MIT Lincoln Lab.	vation Techniques and their Application to Lunar	

Section Section	Speaker and Address	Title of Speech	Date Presented
Boston	Dr. James R. Wait I. T. S. & A., ESSA	"Lord Rayleigh, Whispering Galleries,	1/10/67
	Boulder, Colo., 80302	The Earth-Ionosphere Waveguide and Exospheric D	ucts"
	Dr. E.A. Lewis	"Selected Topics in the	11/30/66
	Air Force Cambridge Research Laboratories	Generation and Propagation of VLF Waves"	
	Cambridge, Mass.		
	- Kenneth Green TRG, Inc.	"Novel Millimeter Wave Scanning Antennas"	10/19/66
	400 Border St. East Boston, Mass. 02128		
	- Dr. Ralph Kodis NASA Electronics Research	"Scattering from Rough Surfaces"	11
	Center Cambridge, Mass. 02139		TEOTON I
	B. B. Barrow	"A Trophospheric-	10/13/66
	Sylvania Elec. Products.	Scatter Rake System	
	40 Sylvan Road	and its Use in Propagation Measurements"	
	Waltham, Mass. 02154	Measurements	10 SWOIDS
Dayton OF II	Dr. Paul Mayes University of Illinois	"Broadband and Millimeter Antennas"	1/3/67 and mulas
	Urbana, Illinois 61801		
Washington	Dr. John Findley National Radio	"High Resolution Radio Astronomy"	1/9/67
	Astronomy Observatory Green Bank, W. Va. 24944		
	Brokers Boul F. Moyes	"The Use of Dispersion	11/22/66
	Professor Paul E. Mayes University of Illinois	Data in Antenna Design'	11,11,11
	Urbana, Illinois 61801		
REGION 4			
	ON DEVICES	ETOZIII I WANDANA	10/6/66
Chicago	Professor Emmet Leith University of Michigan Ann Arbor, Michigan	"Holography - A Lecture and Demonstration"	86 KOMO A
			Southeastern Michigan
REGION 5			12/8/65
Dallas	Professor William B. Hanson (Address unknown) - Contact	"The Present Understanding of the Ionosphere"	1/17/67
	Section Secretary: B. R. Mayo P. O. Box 528		
	Richardson, Texas 75080		
	Dr. Raymond Justice Andrew Corporation	"Reflector Type Antennas"	11/17/66
	Chicago, Illinois		REGION 7
pop430-08/4	Roy Copeland (Address unknown) - Contact Section Secretary:	"Antennafiers"	10/18/66
	B.R. Mayo P.O. Box 528		

Richardson, Texas 75080

REGION 6			NOR - I MONDER
Presentades	Speaker drawdill to oils! T	m: 11 3 6 C 4 4 - 1 3 8 9 9 8	Date
Section	Speaker and Address	Title of Speech	Presented
Los Angeles	Dr. Yenu T. Lo	"Non-Uniformly Space-	11/10/66
	University of Illinois	Tapered Arrays	
eric Ducta"	Urbana, Illinois		
San Francisco	Dr. D. K. Reynolds	"Wave Propagation	12/5/66
	University of Washington	Studies in Antarctica"	
	Seattle, Washington		
	Dr. John W. Greiser	"Dispersion of	10/18/66
	Granger Associates	Sinusoidal Tapes"	
	Palo Alto, California		
	ANTENNAS & PROPAGAT	ION and	
	MICROWAVE THEORY & TI	ECHNIQUES	
	Joint Groups Chapters M	eetings	
REGION 1			
REGIONT			
Connecticut	Richard Geiger	"Traveling Wave	11/22/66
	Electronic Specialty Co.	Tubes - Theory & Techniques'	
	Thomeston, Conn.	and a care of our said Sald Sald Sald Sald Sald Sald Sald Sal	
REGION 2			
Columbus	Dr. Thomas Abele	"Directional Filters"	11/30/66
Columbus	Bell Telephone Labs.		11/30/00
	N. Andover, Mass.		
	othest notwoods spirits	ug William and and	11 /7 ///
	Dr. Louis Cutrona U. of Michigan	"Synthetic Aperture Radar Systems"	11/7/66
	Ann Arbor, Michigan		
	San Diner, Galif. 92109	Green Bardgo Muldo Sul	20 100 177
	Vincent Mazzola Wheeler Laboratories	"Phased Array Antennas Simulated in Waveguide"	10/20/66
	Great Neck, N. Y.	Simulated in waveguide	
	ANTENNAS & PROPAGAT		
	MICROWAVE THEORY & TE ELECTRON DEVIC		
REGION 4	Joint Groups Chapters Mo		
G 11	W W M - C - 1	UNIA - Danfan	2/21/67
Southeastern Michigan	W.W. Mumford Bell Telephone Laboratories	"Noise Performance Factors in Communication	2/21/67
Witchigan	Whippany, New Jersey	Systems'	
	dancen chestathe Pripart Students		1/10//7
	Dr. W.H. Glenn United Aircraft Research Labs.	"Ultrashort Light Pulses"	1/19/67
	East Hartford, Conn.		
A STANSFORM		A.D. GOLVANIAN TOTAL	
ANT	ENNAS & PROPAGATION and VEHICUL AEROSPACE AND ELECTRON		
	COMPUTER and COMMUNICATION		
	Joint Groups Chapters M		
REGION 7			
REGION /			
Vancouver	C.E. Marshall	"Touch Calling"	1/30/67
	Automatic Electric, Canada Ltd.		
	Brockville, Ontario, Canada		

REGION 7 - Continued

Section Section	Speaker and Address	Title of Speech	Date Presented
	 T.G. Lynch West Coast Gas Transmission 1155 West Georgia St. Vancouver, Canada N. V. Selby Research Industries Limited 	"Pipeline Remote Control and Telemetry"	2/13/67
	2971 Lake City Way, Burnaby 2, B.C., Canada		
	Lynn Watson Precision Instrument Co. Palo Alto, California	"Business and Industrial Appreciation of Tape Recorders"	1/23/67
	Ron Battle Western Elevator Co. 1451 Hornby Street	"Electronic Techniques of Modern Elevator Control"	12/12/66
	Vancouver, B.C., Canada		
	Glen Valde B.C. Telephone Company	"Industrial and Educational Closed Circuit T.V."	11/21/66
	768 Seymour St. Vancouver, B.C., Canada		
	Jim Weston	"D.C. 8 Flight	10/24/66
	L.A. Varah Limited 1250 West 6th Avenue Vancouver, B.C., Canada	Simulator Tour"	
	AUDIO & ELECTRO-ACG	OUSTICS	
REGION 1	tact Cambridge Cartes!		
Connecticut	Benjamin B. Bauer CBS Labs. Stamford, Conn.	''High Fidelity Components and Systems''	1/17/67
REGION 2			
Cincinnati	R. J. Rockwell WLW-Crosley Cincinnati, Ohio	"Unusual Circuitry for Improving Audio Fidelity"	1/26/67
REGION 5	Transportation System		
Houston	L. W. Erath 3009 S. Post Oak Road Houston, Texas 77027	"LWE Feedback Loudspeaker"	5/26/66
REGION 6	note is a mossymina so we was		
San Francisco	Frederick Krock KKHI San Francisco, Calif.	''Studio and Broadcast Equipment''	12/8/66
	AUTOMATIC CONTRO Group Chapter Meeting		2/2/61
	- Lawrence Berke - Dr. Bernard Litman ARMA Corporation Garden City, N.Y. 11530	"Master Reference System for Rapid At-Sea Alignment of Aircraft Inertial Naviga- tion Systems"	12/20/66
Schenectady	Robert C. Rustay General Electric Co. Schenectady, N.Y. 12301	"Steady State and Transient Analysis of Target Angle Tracking Loops"	12/13/66

REGION 2			Date
Section	Speaker and Address	Title of Speech	Presented
Dayton	James F. Hall AF Flight Dynamics Lab. Wright-Patterson AFB	"Applications of Fluidics to Aircraft Control"	2/9/67
	Ohio, 45433	Heart Salvania Data Committee	12/3/66
	Richard Read Cincinnati Milling, Inc.	"Introduction to Numerical Control Principles"	12/7/66
	Cimtrol Division Cincinnati, Ohio	Lynn Watness sequeld Proceeding Instruments Co. Palo Aito, California	
Philadelphia	Dr. Charles W. Ross Leeds and Northrup Co. Philadelphia, Pa.	"Theory and Application of An Error Adaptive Control Computer"	1/23/67
Pittsburgh	Calvin W. Eggers Westinghouse Electric Corp.	"Progress in Digital Process Control	1/26/67
REGION 4	Pittsburgh, Pa.		
Chicago	- W.G. Gesell Corning Glass Works	"Fluidics Applications in Industry"	1/18/67
	Corning, N.Y J.B. Bjostad Aeronautical Division, Honeywell, Inc.	"Aerospace Applications of Fluidic Control Systems"	11/30/66
1/11/67	Minneapolis, Minn. - J. J. LaRocca (Address unknown) - Contact Section Secretary: Paul F. Carroll 827 Clover Court Glenview, Ill. 60025	"Fluidics: Potential for Can Manufacturing Equipment Control"	REGION 1 Connections
REGION 6			
Los Angeles Council	Dr. Richard A. Roche North American Aviation Los Angeles, Calif.	"Modelling and Analysis of Transportation Systems"	1/18/67
nrevasedtone negidožM 12/8/66	Michael G. Taylor, M.D. California Institute of Technolog Pasadena, Calif. 91109	"Modelling and Design of the y Cardiovascular System"	12/14/66
	Dr. William A. Porter University of Michigan Ann Arbor, Michigan	"Extension of Some Classical Results to Distributive Systems"	12 /12 /66
San Francisc	NASA, Life Sciences Ames Research Center Moffett Field, Calif. 94035	"Research Use of Closed- Loop Manned Simulators"	11/15/66
12/13/66 Wantengara	Dr. Gene F. Franklin Stanford University Palo Alto, Calif. 94304	"Design of Piecewise Linear Functions for Relay Control Systems"	10/18/66

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BROADCASTING

	BROAL	CASTING	
REGION 4	Group Cha	pter Meetings	
New York (cont's)			Date
Section	Speaker and Address	Title of Speech	Presente
Twin Cities	William McGinnis	"General Electric Four	1/10/67
	WCCO-TV Studios 50 South 9 Street	Plumbicon Camera'	
	Minneapolis, Minn. 55402		
	BROADCASTING and BROADCAST	F AND TELEVISION RECEIVERS napter Meetings	
REGION 2	nato/Epide/Solff, Milwardsoco	Beaverlon, Oregon 97005	
Philadelphia	Ralph Reiser	"A New TV Waveform	1/9/67
	Hewlett-Packard Colorado Springs, Colorado	Monitor"	
	Colorado Springs, Colorado		
	CIR CILIT	THEORY	
DECION 3	Group Chapt		
REGION 2			
Philadelphia	Dr. Thomas E. Stern	"Analysis of Non-Linear	2/9/67
	Dept. of Electrical Engrg. Columbia University	Circuits With the Digital	
	New York, N. Y. 10027	Computer"	
REGION 6			
REGION 3	And the second second second		
Los Angeles	R. W. Drew Texas Instruments Corp.	"Will Integrated Circuit	12/8/66
	Sales Office	Manufacturers Obsolete Circuit Designers?''	
	Los Angeles, Calif.	Designers:	
San Francisco	Professor W. Levan	''Step-Up Networks For	12/21/66
	U. C. L. A.	Signal Recovery"	12/21/00
	Los Angeles, Calif.	Dr. William H. Minke	
	G. C. Temes	"Maximally Flat Approxi-	10/19/66
	AMPEX	mation Techniques"	10/1//00
	Redwood City, Calif.		
	CIDCULE THEODY ANGED WATER	KLA. Delense Elec. Prod. Div. Carnden. New Jersey	
	ELECTRO	NTATION & MEASUREMENTS and N DEVICES	
	Joint Group Cha		
REGION 6			
Portland	Richard C. Ray	"Characteristics and Uses of	2/2/67
	Bell Telephone Labs.	Square Loop Magnetic Cores"	2/2/01
	Whippany, N.J.		
11/22/66	Jesse Gard	"Achieving Reliability in	1/26/67
	Tektronix, Inc.	Commercial Electronics"	2/20/01
	Beaverton, Ore. 97005	William Street or Principles	
	Lester Mock	"New Equipment and Future	12/19/66
	KOAP-FM-TV	Plans of KOAP-FM-TV"	, = , , 00
	Portland, Oregon		

Section	Speaker and Address	Title of Speech	Date Presented
Portland (cont'd)	Byron Brendon Battelle-Northwest	"Holography! New Tech- nique for 3-D Pictures"	11/22/66
	Richland, Wash. 99352	pp Named No. 27 are William on	
	Dr. J. Richard Kerr Oregon Graduate Center for Study and Research	"Microwave Bandwidth Optical Communication Systems"	9/22/66
	Portland, Oregon		
	Robert H. Anderson Tektronix, Inc. Beaverton, Oregon 97005	"A Simplified, Direct- Viewing, Bi-stable Storage Tube"	5/12/66
	COMMUNICATION TECHNO	DLOGY	
REGION 1	Group Chapter Meeting		
Boston	Bruce B. Barrow Sylvania Applied Research Lab.	"A Tropospheric-Scatter Rake System and its Use in Propo-	10/13/66
	Waltham, Mass. 02154	gation Measurements"	
	F. H. Hart, and W. R. Crowther - Addresses unknown, contact Section office:	"The MIT Lincoln Lab. Experi- mental Terminal Computer System"	1/17/67
	IEEE Boston Section office 31 Channing Street	New York, whichball 60	
	Newton, Mass. 02158	Aerospace Applications	
	David L. Soloman Dept. of Defense - contact Section office, address above	"The National Communication System"	11/17/66
New Jersey Coast	Dr. Richard G. Smith Bell Telephone Labs. Murray Hill, N.J. 07971	"Non-Linear Optical Effects"	1/18/67
	Dr. William H. Ninke Bell Telephone Labs. Murray Hill, N.J.	"Man-Computer Communications"	12/14/66
	Dr. Richard Guenther RCA, Defense Elec. Prod. Div. Camden, New Jersey	"Commercial Satellites of the Future"	6/22/66
New York	Prof. R. Anderson Newark College of Engineering Newark, N.J. 07102	"Elementary Building Blocks in Electronics Switching"	11/29/66
	W. S. Litchman ITT Federal Labs Nutley, N.J. 07110	"Systems Comparisons"	11/28/66
	Professor R. Anderson Newark College of Engineering Newark, N. J.	"Coding Used in Electronic Switching"	11/22/66
	Owen O. E. De Lange Bell Telephone Labs. Holmdel, N.J. 07733	"Lasers"	11/21/66
	Professor R. Anderson Address above	"Introduction to Electronic Switching"	11/15/66

Section	Speaker and Address	Title of Speech	Date Presented
New York (cont'd)	Edwin J. Istvan Communications Satellite Corp.	"Satellites"	11/14/66
	Washington, D. C.		
	H. Smith American T & T Co. 195 Broadway New York, N. Y. 10007	"Types of Electro-Mechanical Systems, Panel, #1 and #5 Crossbar"	11/1/66
			2 /17 /66
	Edmund A. Laport RCA Princeton, N.J. 08540	"Overland Microwave Communication"	10/31/66
	John J. Ross Bell Telephone Labs. Holmdel, N.J. 07971	"Cables, Land and Sea"	10/24/66
	W. O. Miller American T & T Co	"Communications Explosion - Domestic and Global"	10/17/66
	New York, N.Y. 10007		
REGION 2			
Washington	J. G. Puente; T. Sekimoto; and O. G. Gabbard Communications Satellite Corp.	"A Satellite TDM Multiple Access Experiment"	11/17/66
	Washington, D.C.		
REGION 3			
Alabama	H. J. Ferguson Southern Bell Tel. Co. Birmingham, Alabama	"Speech Synthesis"	2/13/67
Canaveral	John B. Berry, Jr Southern Bell Tel. Co. Atlanta, Ga. 30303	"New Multi-Purpose Wideband Data Transmission System"	1/23/67
East Tennessee	Maj. A. J. Smith USAF, 134th Air Refueling Group Tennessee Air National Guard KC-97L, Knoxville, Tenn.	"Your Air National Guard"	2/14/67
Orlando	John B. Barry, Jr. Southern Bell Tel. Co.	"The Universal Wideband Data Transmission System"	4/20/66
REGION 4	Atlanta, Ga. 30303		
Chicago	R. W. Leforge Illinois Bell Tel. Co. 212 W. Washington Ave. Chicago, Ill. 60606	"The Communication Technol- ogy Story, its National Organi- zation and the Role Played by Local Chapters"	1/12/67
REGION 5			
Houston	R. W. Moorehead NASA-MSC	"The Space Communication System for Project Apollo"	10/20/66
	Houston, Texas		
	W. S. Hazlett Southwestern Bell Tel. Co. P. O. Box 1530	"Bell System Building Blocks"	5/19/66
	Houston, Texas		

REGION 6			Date
Section	Speaker and Address	Title of Speech	Presented
28/4/AL	Byron Dy's stiffened		
Los Angeles Council	William C. O'Brien Hughes Aircraft Corp.	"Military Field Communi- cations"	2/7/67
	T 11 . C 1:6 03/33		
San Francisco	- Don Jones Pacific Telephone & Telegraph Co.	Panel Discussion: "Steady State Noise in	11/16/66
	San Jose, Calif. - Donald Green Lynch Communications Systems, Inc.	Telecommunications Systems"	
	San Francisco, Calif.		
	- Myron Ferguson Electronic Defense Labs.		
	Sylvania Electric Products Mountain View, Calif. 94040		
DECION 1	<u>COMPUTER</u> Group Chapter Meetir	angs	
REGION 1	Group Chapter Meetin	153	
Boston	Bruce H. Baldridge Foxboro Co.	"Process Supervision via Direct Digital Control"	12/15/66
	Foxboro, Mass. 02035	Bandes O Obna	
	C. M. Rader	"Computer Techniques for Vocoder Simulation"	11/9/66
	MIT Lincoln Lab. Lexington, Mass. 02173	The Authors Corners and an	
	F. Lee; D. Troxel MIT	"Project Reading Machine"	10/4/66
	Cambridge, Mass. 02139		
New York	T. Finch	"Large Scale Integration"	2/21/67
	Bell Telephone Labs. Murray Hill, N.J. 07971		
	N. Lihrbach; H. Staehling W. Coultas	Panel Discussion: "DPMA-ACM Computer Selection"	1/16/67
	(Addresses Unknown) Contact Chapter Chairman:		
	Alan Corneretto 41 West 96 Street		
	New York, N. Y. 10025		
	L. Rosler Bell Telephone Labs	"Computer Music"	12 /15 /66
	Murray Hill, N.J. 07971		
	- J. P. Roth IBM Corp.	Panel Discussion: "Automated- Design"	11/16/66
	Yorktown Heights, N. Y. 10598 - Hugh Mays, Fairchild Corp.	Chicago, III 60505	11/22/66
	Mountainview, Calif. 94040		
	- William Brown, Honeywell Waltham, Mass. 02154		
	- C. Y. Lee Bell Telephone Labs.		
	Holmdel, N.J. 07733		

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REGION 1 - Continued			Date
Section	Speaker and Address	Title of Speech	Presented
New York	- W. Willard Pierce	"Wall Street Views	10/11/66
Council	- David Wolk	the Computer	
	Merril, Lynch, Pierce, Fenner & Smith	Manufacturers"	
	70 Pine St., N.Y., N.Y. 10005		
	T B III-	"Central Nervous	2/17/66
	L. D. Harmon	System as Information	2/11/00
	Bell Telephone Labs.		
	Murray Hill, N.J. 07971	Processing System"	
	But the Mark that I was Desput	UP Language all	1/25/67
Syracuse	Dr. J. Hartmanis Computer Sciences Dept.	"Formal Languages"	1/25/01
	Cornell Univ.		
	Ithaca, N.Y. 14850	- Morton Changles	
REGION 2			
Dayton	W.H. Puterbaugh	"A New Printing	2/21/67
	National Cash Register Co.	Principle"	
	Main & K Streets		
	Dayton, Ohio		
			Twin Cities
	Andrew Adelman	"Computers - In An	12/1/66
	I.B.M. Corp.	Orbiting Space Laboratory"	
	Bethesda, Md. 20014		
	Carl F. Rench	"Antidote for Obsolescence	9/22/66
	National Cash Register Co.	(Technical)"	
	Main & K Streets		
	Dayton, Ohio		
	Dr. Jay Lathrop	"An Approach to Large	10/13/66
	Texas Instruments Corp.	Scale Integration"	
	Dallas, Texas		
Philadelphia	A. B. Tonik	"Hardware Implications	11/30/66
	Univac Div., Sperry Rand Corp. P.O. Box 8100	of Modern Software'	
	Phila., Pa. 19101		
Pittsburgh	Richard Benson	"Computer Applications	2/20/67
king on	Westinghouse Electric	in Power System	
	Pittsburgh, Pa. 15221	Planning"	
	moli to sense dall sa ty	- Kenneth Bern trani	
	A. Ben Clymer	"Assumed Mode	11/17/66
	2145 Tremont Rd.	Methods"	
	Columbus, Ohio 43221		
Washington	Bernard Rider	"Present and Future	12/7/66
	Western Union	Western Union Services	
Newsderson Coasibari	Arlington, Va.	Using Computers'	
	Irwin D. Baumel	"Man-Machine Communi-	11/2/66
	Sanders Associates'	cation Link in Real Time	
	Plainview, N.Y.	Computer Systems'	4
	Communications Env		

REGION 3		Linute House	Date
Section	Speaker and Address	Title of Speech	Presented
Daytona Beach	Robert S. Singleton Radio Corporation of America West Palm Beach, Florida	"Computer Memory Techniques"	2/8/67
San Francisco 2/17/66	G. E. Field Operation Goddard Space Center Greenbelt, Md. 20770	"Nimbus II Operational System"	12/8/66
1/28/67	John B. Burger G. E. Co., Fed. Sys. Operation Cape Canaveral, Fla. 32920	"Central Instrumentation Facility"	9/29/66
REGION 4	Electronic Delegas Labor	Caralar Badys	
Southeastern - Michigan	Morton Chonoles G.E. Co. Detroit, Michigan	"Communications with Time-Sharing Computers"	1/11/67
Tálus/S Recitor	John Burkhart	W. H. Puterbangh National Cash Register Co Main & K Streets	Dayton
Twin Cities	Dennis Stanga, UNIVAC 2276 Highcrest Drive Roseville	"The UNIVAC 1108 Multiprocessor System"	12/20/66
REGION 5	Minneapolis, Minn. 55113	Bothesdá, Ma. 20044	
	Charles H. Warlick, Phd. The University of Texas 200-300 W. 21st St. Austin, Texas 78712	"The Digital Computer as a Tool for the Professional Engineer"	1/12/67
REGION 6	"An Approach to Long	Dr. Jay Lathrop	
Los Angeles Council	Scale, httegraponi', T	Symposium: "Computers and Communications, Their System	1/19/67
	- Irving Cohen on to the control of		Falladelphi
	- Harvey J. McMains	"Considerations in Estab- lishing an Information Network"	II.
	- Dr. J. C. R. Licklider - Paul Byrnes	"Network Planning Requirements "The Effect of Networking on Fourth Generation Architecture "The Influence of Computers on	11
11/17/66	- Kenneth Iler - Donald Ashford	Communication System Design' "Broadband Techniques for Inter- Computer Communication"	12/15/60
12/7/66	- William Keister - James Babcock	"Trends in Message and Circuit Switching" "Commercial Time-Sharing	rolyridesW
	- Dr. Leonard Kleinrock	Systems" "Models for Time-Shared Processing"	11
Aling Aling	- Dr. Gene Amdahl	"The Architecture of Computer Hardware and Software for Communications Environment" "The Social Effects of Computer	11
	- Dr. Marvin Adelson - Dr. D. C. Engelbart (Addresses Unknown) Contact: Los Angeles Council Office IEEE, Suite 1920 3600 Wilshire Blvd. Los Angeles, Calif. 90005	Networks" "Console Design"	n

REGION 6 - Continued	<u>1</u>		Date
Section	Speaker and Address	Title of Speech	Presented
Los Angeles Council	Lionel Rovner UCLA Los Angeles, Calif.	"Use of Computers in Neurophyschological Research"	1/9/67
Orange County	Dr. R.H. Fullerto; E. Lindell;	"Woven Plated Wire Computer Memories"	12/8/66
	(Addresses Unknown) Contact Section Secretary:	- H. Dian MeKay	
	John W. Gillings 11602 Ninth St. Garden Grove, Calif. 92640		
	Vern E. Hakola	"A System for Automatic	10/13/66
	(Address Unknown) Contact Section Secretary:	Value Exchange"	
	John W. Gillings 11602 Ninth St.		
	Garden Grove, Calif. 92640		Huntsville
	- J.D. Trotter - G.J. Burnett	"Silicon-on-Sapphire Technology"	9/8/66
	Autonetics 3370 Miraloma Anaheim, Calif. 92805		
Phoenix	- John F. Heafner	"The Grail Project"	1/25/67
	- William L. Sibley The Rand Corp. 1700 Main St. Santa Monica, Calif. 90401		
	Linder C. Hobbs	"Computer Memories	11/16/66
	Hobbs Associates, Inc. Corona del Mar, Calif. 92625	and Data Storage"	ALEMINETO
San Francisco	Louis Feldner Lockheed Missiles & Space Co.	"Digital Communications"	11/22/66
	Sunnyvale, Calif. Monitor: Elmer Shapiro Stanford Res. Inst.		
	Menlo Park, Calif. 94025		
	Prof. Patrick Suppes Stanford University Stanford, Calif. 94305	"Computer-Based Instruction"	9/27/66
	ELECTROMAGNETIC COMPA	ATIBII ITV	
	Group Chapter Meetin		
REGION 1			11/15/66 +
New Jersey Coast	Stephen Caine	"Tri-Service Coordination	12/6/66
46/85/01	Tri-Service Task Force Naval Ship Engineering Center	of EMI Standards and Specifications"	
	Washington, D.C.	Sala Barran - dask	12/8/66 /
REGION 2			
Washington	Wilford Dean Jr.	"Navy Actions Regarding	1/26/67
	Dir. Radio Frequency Spectrum Office of Chief of Naval Operations Washington, D. C.	Electromagnetic Compatibility''	2/2/69
	-39-		

DECION 3 Continue	. J				Nation Const.	Maria Carlo	mills of Council	Date Presented
REGION 2 - Continue			Date		Section	Speaker and Address	Title of Speech	Presented
Section	Speaker and Address	Title of Speech	Presented	HE EAST	Presented	donnel lo sull	asuatha has palears	* Continues
Washington	John Egli	"A Forward Look at	11/10/66			ELECTRON DE Group Chapter M		
& Baltimore	U S A Electronics Command	Electromagnetic				Presidential Company and Company	mondtrakt	crodyn dan't
	Fort Monmouth, N.J. 07703	Compatibility Research & Development"			REGION 1		Waldinger, Mose, 02154	
					Boston	David R. Whitehouse	"High Power Gas	2/16/67
REGION 3						Raytheon Co. Waltham, Mass. 02154	Lasers"	
Canaveral	- H. Dean McKay	"Electromagnetic	12/14/66			Waithain, Wass. 02134		
	Federal Electric Co. Cocoa Beach, Florida	Compatibility Program at Kennedy Space Center"				B. L. Buchanan	"Field Effect Transistors"	1/26/67
	- Carl Lennon	Contrib designation				(Address unknown) Contact:	Transistors	
	(Address unknown) Contact Section Secretary:					IEEE Boston Section Office		
	Horst A. Poehler					31 Channing Street Newton, Mass. 02158	(Descriptions)	DECOME 6
	400 Third Ave.						dertand, LL T	1/18/67
	Sea Park Homes Eau Gallie, Fla. 32937					T. M. Hyltin Texas Instruments	"Microwave Integrated Circuits in Phased Array	1/18/67
		"Determining Requirements	10/31/66			P.O. Box 5012	Radars'	
Huntsville	Dr. Carl Frederic Vitro Corp.	of EMC Using Computers"	10,01,00			Dallas, Texas 75222		
	W. Orange, N.J. 07052					J. E. Rowe	"Current Problems in	11/30/66
	W.S. Kastoroff	"Electromagnetic	9/19/66			University of Michigan Ann Arbor, Michigan	Microwave Device Research	
	Brown Engineering Co.	Compatibility Awareness'				Ann Arbor, Wildingan		BEGION
	300 Sparkman Drive, N. W. Huntsville, Alabama 35807					Prof. M. L. Dertouzos	"Electronic Circuit Design by On-Line	10/25/66
	Hullesville, Hasaina 3300.	John E. Hesland	Edmontos			MIT Cambridge, Mass. 02139	Computation'	
New Orleans	Ben Weinbaum General Dynamics Convair	"Graphical Electromagnetic Fields and Compatibility	1/19/67				"Coherent Infrared Radar"	10/18/66
	P. O. Box 1128	Analysis"				R. H. Kingston MIT Lincoln Lab.	"Conerent Infrared Radar"	10/18/00
	San Diego, Calif. 92112					Cambridge, Mass. 02139		X.002.8542.0
REGION 6						R. Rediker; M. Grace;	Panel Discussion: "Solid	9/28/66
	42.62.6	"Medical Electronics and	1/19/67			T. Leonard; R. Holstrom;	State Sources"	
Los Angeles Council	Raymond T. Kado Space Biology Lab.	EMI"				F. Sterzer (Addresses Unknown)		
Council	Univ. of Calif. at Los Angeles					Contact:		
	Los Angeles, Calif.					IEEE Boston Section Office 31 Channing Street		New York
	Edward D. O'Connell	"Air Force Logistics	11/17/66			Newton, Mass. 02158		(Metropolitan)
	Western GEEIA Region McClellan AFB	Commands Role in EMC'			11 19	normos (WES) awizas 43 arii	"The Silicon-Silicon	2/23/67
	California 95652				New York (Metropolitan)	Dr. A. Goetzberger Bell Telephone Labs., Inc.	Dioxide Interface"	2/23/01
	Dr. E.F. Buckley	"Microwave Absorptive	10/20/66		Washington	Murray Hill, N.J. 07971		
	Emerson and Cuming Inc.	and Anechoic Materials"				D.R. Carley	"Overlay Transistors	1/12/67
	Canton, Massachusetts 02021					RCA	for VHF and UHF Power	
	Dr. Fred J. Morris	"Low Frequency Magnetic	9/15/66			Somerville, N.J. 08876	Generation"	
	Electro-Mechanics Co.	Measurements'				Donato J. Bracco	"Electron Beam	11/15/66
	Box 1546 Austin, Texas 78767					G.T. & E. Labs. Bayside, N.Y.	Techniques in Chemical Analysis of Electronic	
ooyotaa no	Service Control of the control of th	"EMC What are we	10/26/66			Property of March Ellerive	Materials and Devices"	
San Francisco	Andy Hish EMC Instrumentation Inc.	Measuring?"	13/20/00		Schenectady	Dr. Gerald W. Ludwig	"Solid State Microwave	12/8/66
	North Hollywood, Calif.				Bellenectady	G.E. R & DC	Signal Sources"	
						Schenectady, N.Y.		
				4	REGION 2			
				0		Henry Miller	"System Utilization	2/2/67
					Philadelphia	Henry Miller David Sarnoff Labs.	of Large Scale	2/2/01
	-40-					Princeton, N.J. 08540	Integration"	

REGION 2 - Continued			Date
Section	Speaker and Address	Title of Speech	Presented
Washington	Dr. David R. Whitehouse Research Div., Raytheon Waltham, Mass. 02154	"High Power Gas Lasers"	1/9/67 <u>RECION 1</u>
	Howard M. Day Naval Research Lab	"High Power Silicon Schottky Microwave Diode"	12/5/66
	Washington, D. C. A. H. Medwin RCA	"Large Scale Arrays (of Integrated Circuits)"	11/14/66
REGION 6	Sommerville, N.J. 08876		
Albuquerque	F.L. English Sandia Corp.	"Electron Mirror Microscope Observations of Ferroelectric Materials"	1/30/67
	Albuquerque, New Mexico		
	ENGINEERING MANA Group Chapter Me	GEMENT eetings	
REGION 1		"Management Techniques	2/15/67
Binghamton	Harold Gruen Philco-Ford Adv. Technol. Center	Theory vs. Practice"	173594
	Blue Bell, Pa. 19422	Fields and Compatibility	1/17/67
Boston	Frank Diaz System Development Corp. Lexington, Mass. 02173	"Current Problems in the Management of Software Acquisition"	1/11/01
	Dr. John S. Burgess Rome Air Development Center Rome, N.Y. 13440	"Evaluation of a Laboratory Research & Development Program"	11/9/66
New York (Metropolitan)	- Sheldon J. Raiter IBM Corp.	"Business Goals and the Utilization of Engineers"	2/9/67
	Armonk, N.Y. 10504 - Dr. C. Bahn C.C.N.Y. Research Services	"The Creative Environment"	Stoy Well (Mariopolitan)
	New York, N.Y Walter L. Glomb ITT Federal Labs	"Engineering Organization for Successful Program	ng Photoson
	Nutley, N.J R.P. Hinton Communications Systems Inc.	Management'' ''Managing the Engineer''	9 19 5 16 6
	South 60, Rte. 17 Paramus, N.J. 07652	Donato J. Braceo	1 /12 /67
	Moderator: J. A. Vaughan B. Everitt; J. Jenness Dr. S. S. Stephenson;	Panel Discussion: "How to Become a More Effective Manager"	1/12/67
	A.F. Waggoner (Addresses Unknown) Contact Chapter Chairman: Leo Katz		
	N. Y. Telephone Co. 140 West Street New York, N. Y. 10007		

REGION 1 - Cor	ntinued

REGION 1 - Continued			Date
Section	Speaker and Address	Title of Speech	Presente
New York (Cont'd) (Metropolitan)	S.R. Collis; D.M. Miller; K.A. Roe; J.H. Vollbrecht;	"Creating a Climate in Which Initiative	11/10/66
	E.K. Tangerman (Addresses Unknown) Contact Chapter Chairman:	Flourishes"	
	Leo Katz N. Y. Telephone Co.		
	N. 1. Telephone Co. 140 West Street New York, N.Y. 10007		
	Walter K. MacAdam	"The Application of New	10/13/66
	American Tel & Tel Co. 195 Broadway N. Y. C., N. Y. 10007	Tools and Techniques in Complex Management Decisions"	32/6/65
REGION 2			
Cleveland	- William Buchanan General Electric Co. East Cleveland, Ohio - Ralph Hanna	Panel Discussion: "Advanced Education of the Technical Staff"	1/10/67
	B. F. Goodrich Co. Akron, Ohio - Robert C. Hendrickson		
	Sherwin-Williams Co. Prospect Ave., Cleveland, Ohio		
	- Walter B. Rust Harris-Intertype Corp. Cleveland, Ohio		
	Donald M. Wolfe Case Institute of Technology 10900 Euclid Ave.	"Studies in Behavioral Science"	10/11/66
	Cleveland, Ohio 44106		
Dayton	Col. B.N. Bellis F-12/SR-71 Systems	"History, Concepts and Trends in Systems	10/6/66
	Program Office Wright-Patterson AFB, Ohio	Management''	
Philadelphia	Norman H. McCabe RCA	"Security - A Management Problem"	1/31/67
	Camden, N.J.		
Washington	Dr. Chalmers W. Sherwin Department of Commerce	"Some Philosophical Observations on R & D	11/3/66
REGION 3	Washington, D.C.	Management in Government"	
\$1\01			
Huntsville	W.S. Kastorff Brown Eng. Company 300 Sparkman Drive, N.W.	"Electromagnetic Compatibility"	10/11/66
	Huntsville, Alabama 35807		New Yor
REGION 6			(Metropo
Buenaventura	Dr. Theodore Berlincourt North American Aviation	"The Care and Feeding of Scientists"	12/21/66
	Newbury Park, Calif. 91320		

Contact Chapter Chairmai - E4-Beitram Spector I Straiford Place Syognet, M.Y. H791

	Abongo to aluta	Title of Speech	Date Presente
ection	Speaker and Address	Title of Speech	Fresente
os Angeles	Myrt W. Webb	"So You're A Leader"	12/13/66
ouncil	Hughes Aircraft Co.	Later transport and the second	
	Culver City, California		
		and surplies construction	1/25/67
range County	Stephen Kapernaros	"Cost Effectiveness	1/25/01
	TRW Systems	Thru Integrated Mgt. Information'	
	Redondo Beach, California	Information	
	John H. Geil	"Weapon & Space Systems	11/30/66
	Specifications Technology Inc.	Requirements Which Dictate	
	1905 17th St.	Computerized Spec.	
	Santa Ana, Calif.	Cataloguing"	
		0001 - 3 - 34 - 4 - 34 - 4 - 44	10/2////
	Thurber J. Moffett	"Configuration Mgt.	10/26/66
	Lockheed Aircraft Corp.	(by Computer-Aided	
	Burbank, Calif.	Graphics)"	
	Hannard I. Provet	"Latest Japanese	9/28/66
	Howard I. Furst No. American Aviation	Eng'g. Techniques	7,20,00
	El Segundo, Calif. 90245	& Products"	
	Li ocganico, Sarii, 70215	B. F. Opening Co.	
an Francisco	W.J. O'Donnell	"Time Sharing to Solve	12/8/66
	General Electric Co.	Engineering Problems"	
	Berkeley, California		
	ENGINEERING IN MEDICINE A	ND BIOLOGY	
	Group Chapter Meeting		
	Group Grapeca and Grand		
	nivariath an anthuric	COSTA No. 13/2/2019/06/2019	
EGION 1	eigenen de sendicie Corp. Anoloni	Soft of a twent the age of a control of the control	
EGION 1	niyadağı gu sarburd Syepon, Dell'angelyön Corp. X3010m Lewington, Atlan. 02173	Secretary and the state of the secretary	. /20 // 5
	Dr. Joseph C.R. Licklider	"Six Facets of Man-	1/10/67
	(Address Unknown)	Secretary and the state of the secretary	1/10/67
	(Address Unknown) Contact:	"Six Facets of Man-	1/10/67
	(Address Unknown) Contact: IEEE Boston Section Office	"Six Facets of Man-	1/10/67
	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street	"Six Facets of Man-	1/10/67
	(Address Unknown) Contact: IEEE Boston Section Office	"Six Facets of Man-	1/10/67
	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street	"Six Facets of Man-	2/9/02
EGION 1	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158	"Six Facets of Man- Computer Interaction" "Computer Prediction of Tolerance Limits of the	2/9/02
oston Avoi	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med.	"Six Facets of Man- Computer Interaction" "Computer Prediction of	279.02
oston	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst.	"Six Facets of Man- Computer Interaction" "Computer Prediction of Tolerance Limits of the	279.02
oston Wan	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760	"Six Facets of Man- Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier"	12/13/66
oston Avoi	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems	279.02
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oston	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extra-	12/13/66
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oston Mari Mari	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138 Dr. William Simon	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extraterrestrial Life" "Small Digital Computer	12/13/66
oston	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138 Dr. William Simon Harvard Medical School & MIT Boston, Mass. 02115	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extraterrestrial Life" "Small Digital Computer Systems in a Biological Laboratory"	12/13/66
oston	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138 Dr. William Simon Harvard Medical School & MIT Boston, Mass. 02115 Dr. Merrill A. Bender	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extraterrestrial Life" "Small Digital Computer Systems in a Biological Laboratory" "Static Imaging Devices	12/13/66
ew York	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138 Dr. William Simon Harvard Medical School & MIT Boston, Mass. 02115 Dr. Merrill A. Bender Roswell Park Memorial Inst.	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extraterrestrial Life" "Small Digital Computer Systems in a Biological Laboratory"	12/13/66
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oston	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138 Dr. William Simon Harvard Medical School & MIT Boston, Mass. 02115 Dr. Merrill A. Bender Roswell Park Memorial Inst. Buffalo, New York Dr. Hiram Hart C.C.N.Y. New York, New York Roger L. DeMontebello	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extraterrestrial Life" "Small Digital Computer Systems in a Biological Laboratory" "Static Imaging Devices in Nuclear Medicine" "Modern Analytic and Computer Techniques in Multicompartment Analysis" "The Tomas-Synthanalyzer,	12/13/66 11/8/66 10/13/66 2/9/67
oston	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138 Dr. William Simon Harvard Medical School & MIT Boston, Mass. 02115 Dr. Merrill A. Bender Roswell Park Memorial Inst. Buffalo, New York Dr. Hiram Hart C.C.N.Y. New York, New York Roger L. DeMontebello (Address unknown)	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extraterrestrial Life" "Small Digital Computer Systems in a Biological Laboratory" "Static Imaging Devices in Nuclear Medicine" "Modern Analytic and Computer Techniques in Multicompartment Analysis" "The Tomas-Synthanalyzer, for Optical Reconstruction	12/13/66 11/8/66 10/13/66 2/9/67
oston	(Address Unknown) Contact: IEEE Boston Section Office 31 Channing Street Newton, Mass. 02158 Dr. Ralph F. Goldman U.S. Army Reserve Inst. of Env. Med. Natick, Mass. 01760 Dr. Carl Sagen Harvard University Cambridge, Mass. 02138 Dr. William Simon Harvard Medical School & MIT Boston, Mass. 02115 Dr. Merrill A. Bender Roswell Park Memorial Inst. Buffalo, New York Dr. Hiram Hart C.C.N.Y. New York, New York Roger L. DeMontebello (Address unknown) Contact Chapter Chairman:	"Six Facets of Man-Computer Interaction" "Computer Prediction of Tolerance Limits of the Soldier" "Instrumentation Problems in the Search for Extraterrestrial Life" "Small Digital Computer Systems in a Biological Laboratory" "Static Imaging Devices in Nuclear Medicine" "Modern Analytic and Computer Techniques in Multicompartment Analysis" "The Tomas-Synthanalyzer, for Optical Reconstruction and Dissection of Structures	12/13/66 11/8/66 10/13/66 2/9/67
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REGION 1 - Continue	<u>d</u>		HOTO SE
Section	Speaker and Address	Title of Speech	Date Presented
Rochester	Dr. George Berg Univ. of Rochester Med. Center Rochester, N. Y.	"Systems Analysis of Environmental Pollution"	1/26/67
REGION 2			
Dayton day bas no	Dr. Marvin C. Ziskin U S Air Force, Wright-Patterson AFB, Ohio 45433	"Sounding Out Trouble Spots"	11/3/66
Philadelphia	Dr. E. Neil Moore Comp. Cardiovascular Studies Unit University of Pennsylvania 342 Spruce St.	"Programmed Cardiac , Arrhythmias"	12/6/66
	Philadelphia, Pa. 14104		
	Prof. Alfred Finck Auditory Research Lab. Temple University School of Medicine Philadelphia, Pa. 19122	"Electrophysiological Correlates of Hearing"	11/1/66
REGION 3			
New Orleans	John D. Tallant USDA Southern Regional Research Labs. New Orleans, Louisiana	"The Changes in Fiber- Number Length Distri- bution Under Various Breakage Models"	12/20/66
REGION 4			
Chicago	Dr. Paul R. Ceban University of Illinois 840 S. Wood St. Chicago, Ill. 60612	"A Systems Approach to Psycho-Physiological Processes"	10/11/66
	- W. E. Reynolds Illinois Inst. of Tech. Resch. Inst. 35th and State St. Chicago, Illinois 60616	"The Bio Medical Engineering Center at IITRI"	9/14/66
	- Professor A. Wolfson Northwestern University 619 Clark St. Evanston, Illinois 60201	"Circadean Rythm of the Bob O' Link"	5/10/66
Twin Cities	- Robert Patterson - David Witsoe	"The Use and Recording of Electromyographic	1/19/67
	University of Minnesota Minneapolis, Minnesota 55455 - Carman Kjellesvig, R.N. St. Barnabas Hospital Minneapolis, Minnesota 55415	Signals" "Coronary CareA Nurse's View of Monitoring	11
REGION 5	ADMOSTOR AS NO	Equipment"	*
Houston	Dr. Fred B. Vogt University of Texas, Graduate School of Biomedical Sciences Houston, Texas 77025	"Collection and Analysis of Tilt Table Data"	1/24/67

REGION 5 - Continued		Leading Continued	Date
Section	Speaker and Address	Title of Speech	Presented
Houston	Dr. Granino A. Korn University of Arizona Tucson, Arizona 85721	"Hybrid Computers (with emphasis on random process studies)	2/24/66
REGION 6			WORDER
Los Angeles Council	Dr. Thelma Estrin UCLA Medical Center Westwood, California 96137	"Neuro-Physiological Instrumentation and Computer Data Analysis Techniques"	2/14/67
	Ray Kado UCLA Brain Research Institu Westwood, California 96137	"The Bioengineer and the Biocomputer"	1/12/67
Portland	Magnus Stallknecht IBM Corporation Portland, Oregon	"On-line and Off-line Usage of Computers in Biomedical Research"	12/14/66
	Donald L. Clark Low-Frequency and Biomedic Inst. Engr. Group Tektronix, Inc.	"The Use and Limitations of Operational Amplifiers in Bio-medical Applications"	11/23/66
	Beaverton, Oregon 97005	angingering Problems 5	MAGAZIAN.
	Dr. Lyle D. Calvin Oregon State University Corvallis, Oregon 97331	"Bio-Medical Inter- facing to Digital Computers"	10/19/66
REGION ONLY Sin description Indignity	Byrne Hull Precision Instruments Co. Palo Alto, California Lloyd Newcomb Univ. of Oregon Med. School Portland, Oregon 97201	"Analog and Digital Recording in Bio- Medical Work" "On-Line Evaluation RIS of Analog Tape Systems"	9/20/66
	- Dr. Fred Shipps University of Oregon Med. Sc 1015 N.W. 22nd St.	"Measurement of Blood hool Flow by Augiography"	5/5/66
	Portland, Oregon - Donald W. Baker University of Washington Seattle, Washington 98105	"Instrument for Blood Flow Measurement"	'n
	Daniel L. Dennis, M.D. University of Oregon Med. Se Portland, Oregon 97201	"Methods of Analysis chool of CO ₂ Content of Expired Air"	2/8/66
	Larry R. Mills Dept. of Medical Electronics Good Samaritan Hospital Portland, Oregon 97210	"Analysis of Gait in Crippled Children"	П
	GEOSCIENCE ELECTR Group Chapter Meet		
REGION 2 Washington	Dr. Enrico P. Mercanti Experimental Coordinator Go Space Flight Center Greenbelt, Maryland	"The Orbiting Geo- oddard physical Observatories"	11/1/66

REGION 2 - Continu	<u>ned</u>		Date
Section	Speaker and Address	Title of Speech	Presented
Washington, (Cont'o	H.) Dr. Peter A. Castruccio IBM, 7315 Wisconsin Ave. Bethesda, Md. 20014	"Natural Resource Management Using Space Systems"	1/3/67
REGION 5			
Houston	Leonard Donohoe Texas Instruments 3609 Buffalo Speedway Houston, Texas 77006	"G.S.I. Digital Field Recording Techniques"	2/9/66
	- William Witt - Lee Dukes Geospace & McDonnell 5803 Glenmont Houston, Texas 77036	"Geospace DP 203 Digital Plotter"	10/27/66
INDUS	TRIAL ELECTRONICS & CONTROL		
	Group Chapter Meetings	S. Wang Juna M. M.	
REGION 1			
Boston	James Pritchard Idealab, Inc. Franklin, Mass. 02038	"Fourier Spectroscopy"	1/16/67
Connecticut	Martin Kaplan Mosler Research Products Danbury, Connecticut	"Industrial Security and Alarm Systems"	1/17/67
	Richard H. Kennedy The Bristol Co. Waterbury, Conn.	"Automatic Process Control Past Present & Future"	11/15/66
INDUS	TRIAL ELECTRONICS & CONTROL FIC CONTROL and INDUSTRY & GEN	INSTRUMENTATION NERAL APPLICATIONS	
110 101111	Joint Groups Chapter Me		
REGION 7			
Vancouver	Dr. R.W. Donaldson Univ. of British Columbia Vancouver, B.C., Canada	"Electronic Synthesis of Speech"	1/9/67
	INDUSTRY AND GENERAL APPI Group Chapter Meeting		
REGION 1			
Boston	Robert S. Silva Foxboro Co. Foxboro, Mass. 02035	"Instrumentation Fitted to Direct Digital Control"	11/9/66
Schenectady	M.A. Neslin General Electric Co. 1 River Rd. Schenectady, N.Y. 12301	"Giant Power Shovels"	12/5/66

REGION 2		ALIGION 2 - Continued	Date Presented
Section	Speaker and Address	Fitle of Speech	
Baltimore	Edgar R. Burgin I-T-E Circuit Breaker Co. 19th & Hamilton Philadelphia, Penna.	Coordination of Protective Devices in Industrial & Commercial Power Systems'	1/18/67
REGION 4			. /20 // 7
Chicago	Indonwriter's Labs.	'What's New at Underwriters' Laboratories''	1/19/67
	C Rasquesio"	Semiconductors in	1/25/67
Milwaukee	J. Stearns; B. Motl (Addresses unknown) Contact Section Secretary:	the Welding Industry"	
	Harvey E. Meisel Square 'D' Co. 4041 N. Richards St. Milwaukee, Wisconsin 53212		
Southeastern	Gilbert S. Keeley Consumers Power Co.	"Development of AMOLOGA Commercial Nuclear	1 /19 /67
Michigan	Parnell Rd. Jackson, Michigan 49201	Power Plants"	
REGION 5			
St. Louis	- S. Riesman Sachs Electric Co. 5540 West Park Ave. St. Louis, Mo. 63110 - K. Miller Guarantee Electrical Co. 4161 Gravois Ave. St. Louis, Mo. 63116	"Electrical Contractors' Discussion on Deficiencies in Electrical Design Packages"	2/6/67
MC Property			
REGION 6 San Francisco	- W.J. O'Donnell; - J.R. Kropa General Electric Co. Berkeley, California	"Time Sharing to Solve Engineering Problems"	12/8/66
	INFORMATION THEORY Group Chapter Meetings	A VERTEURING OF Analysis A VERTEURING AND A VE	
REGION 1			
Boston Domini moi	Prof. T.S. Huang M.I.T., Elec. Engrg. Dept. 77 Mass Ave. Cambridge, Mass. 02134	"Optical Information Processing"	
	Prof. J. L. Massey M. I. T. 77 Mass Ave. Cambridge, Mass. 02139	"Coding as Digital Filter"	12 /14 /66

REGION 1	R	E	GI	0	N	1
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REGION I		<u> </u>	Date
Section	Speaker and Address	Title of Speech	Presented
Boston (Cont'd)	D. L. Schilling Polytechnic Institute of Brookl 333 Jay St. Brooklyn, N.Y. 11201	Discriminator!	mm 1 1 /21 /66 (a. traid)
49LV8 40	Dr. Jack Capon M. I. T., Lincoln Lab. Lexington, Mass. 02173	"Multidimensional Maximum- Likelihood Processing of a Large Aperture Seismic Array	10/27/66
New York (Metropolitan)	- Dr. P. Bello; Dr. B. Bogert; - Dr. J. Capon; Dr. T. Kadota; - Dr. R. Price (Addresses unknown)	Panel Discussion: "Detection of Non-Deterministic Signals Theory & Practice"	2/16/67
	Contact Chapter Secretary: Dr. Ira Langenthal	*Cyrosompe Proncipatat	PORMEN
REGION 2	Gen. Applied Sciences Lab. Westbury, N.Y. 11590		nagidaise agidaise
	- E. Baghdady; J. Granlund - L. Gray; J. Klapper; J. Salz - D. L. Schilling (Addresses unknown)	Panel Discussion: "Threshold Extension in Analog & Digital FM Systems"	12/15/66
	Contact Chapter Secretary: (See Above)		Photologic
2//2//2 7 #030245	632 West 125th St.	"Modern Radar and Information Theory"	10/27/66
	CAN become the use.	0008 anositus "Anosod", 19 19 19 19 19 19 19 19 19 19 19 19 19	
	- A. Wyner - E. Weldon	"Adoptive Decoding in Forward Error Control"	6/1/66
	- N. Abramson - A. H. Frey (Addresses unknown) Contact Chapter Secretary: (See Above)	"Costs for Decoding" "Cyclic Codes with Generators of the Form g((fx))" "Exponential Bounds for Trans- mission Rates Below and Above Channel Capacity"	
	Dr. I. L. Lebow	"The Lincoln Experimental	3/10/66
		Terminal"	ac 250#!
REGION 2	taris a cost Physical actual day.	British See to the second	
Philadelphia	Philco Corp. Blue Bell, Pa. 19422	"Digital Visual Communi- cation"	2/6/67
Washington	Dr. F.M. Reza Syracuse University Syracuse, N.Y. 13210	"A New Aspect of Channel Capacity Theory"	1/19/67
REGION 6	validadecia, asiminali		polit mestili
Los Angeles Council	F.M. Jacobs Univ. of Calif. at San Diego San Diego, Calif. 92110	"Efficient Communication on a Random Phase Channel"	1/12/67
San Francisco	Michael A. Arbib Dept. of Elec. Engrg. Stanford Univ. Stanford, Calif. 94305	"Brains, Machines and Automata"	11/17/66

REGION 6			1 HOVO M Date
Section	Speaker and Address	Title of Speech	Presented
San Francisco (Cont'd.)	Nelson M. Blachman Electronic Defense Lab. Sylvania Electronics Mountain View, Calif. 94040	"The Output Signal, Noise, and Intermodulation of a Nonlinearity"	10/20/66
	Manual Parzen Stanford University	"Analysis and Synthesis of Models by Time Series	5/19/66
	Stanford, Calif. 94305	Methods"	
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	INFORMATION THEORY and AUTO Joint Group Chapter Meet		ин вероинем)
	Joint Group Gnapter Meet	Wonday was as a (Add)	
REGION 4			
Southeastern Michigan	George C. Clark, Jr. Radiation, Incorporated Melbourne, Fla. 32901	"Coding - Theory and Application"	1/24/67
INFO	RMATION THEORY and COMMUNIC		
	Joint Groups Chapter Mee	tings	
REGION 6			
Phoenix	Sherwin H. Morris Mt. States Telephone Co.	"Bell System's Nation- wide 4A Toll Switching	2/1/67
	16 W. McDowell Rd. Phoenix, Arizona 85003	System"	
eg in Forward 6/1/66 ng" h Generators	W. V. Lawless Bell Telephone Labs. Holmdel, N. J. 07733	"High Speed Data Transmiss Over High Quality Voice Channels"	sion 11/9/66
	INSTRUMENTATION and MEAS	SUREMENT	
	Group Chapter Meetin		
REGION 1	Channel Capacity		
Boston	Peter L. Richmond Weston Instruments, Inc.	"RMS/DC Converter"	2/9/67
	Watertown, Mass. 02172		
	Harry S. Reichard Princeton Applied Res. Corp. Princeton, N.J. 08540	"Lock-In Amplifiers and Related Instruments"	12/7/66 progressings
	Robert S. Silva The Foxboro Co. Foxboro, Mass. 02035	"Instrumentation Fitted to Direct Digital Control"	11/9/66
	Prof. T. S. Posing 015	collective and a collective of the collective of	2726783
New York	Charles G. Weiss	"Statistics, Probability and Measurement	2/20/67 and
(Metropolitan)	Burndy Corp. Norwalk, Conn.	Reliability"	2/13/67
	S. A. Zitovsky General Precision Inc.	"Inertial System Hardware Applications"	12/21/66
11.41 bos s	Aerospace Group 150 Totowa Rd.		San Francis
	Wayne, N.J. 07470		

REGION 1			Date
Section	Speaker and Address	Title of Speech	Presented
New York (cont'd) (Metropolitan)	C. Karatlas Sperry Gyroscope Co. Inertial Division Great Neck, N.Y.	"Evaluation of Inertial Components"	12/14/66
REGION 2	M. J. Weinshanker Bendix Corp. Teterboro, N.J. 07608	Lecture Series: "Error Consideration in Inertial System"	12/7/66
		"Inertial System Configuration" "Inertial Instruments" "Gyro Testing Equipment" "Gyroscope Drift" "Gyroscope Configurations"	11/30/66 11/23/66 11/16/66 11/9/66 11/2/66
REGION 2		"Gyroscope Principals" "Inertial Elements & Inertial Navigation - Introduction"	10/26/66
Philadelphia	Kenneth Miller John Fluke Mfg. Co., Inc. Seattle, Washington	"A New Means for Precision RMS Voltage Measurements"	1/18/67
Washington	Dr. R.D. Huntoon National Bureau of Standards Gaithersburg, Md. 20760	"National Measurement System"	11/21/66
REGION 7			
Montreal	W.J. Wiener CAE Industries Ltd. Box 6166 Montreal 3, Quebec, Canada	"An Industrial Calibration Operation"	12/14/66
	Dr. A.F. Dunn Division of Applied Physics National Research Council Ottawa, Canada	"The Basis of Canadian Measurements - Our National Programme"	11/24/66
	MAGNETICS Group Chapter Meeting	ndezi il musici S	
REGION 1			
Princeton	Dr. F.E. Hagedorn Bell Telephone Labs. Murray Hill, N.J. 07971	"The Low Temperature Effects of Oxide Surface Layers on Thin Magnetic Films"	1/18/67
	Dr. Jan A. Rajchman RCA Labs. Princeton, N.J. 08540	"Magnetic Memories and Switches"	10/19/66
REGION 6			,
Los Angeles Council	- R.G. Luebben TRW Systems Redondo Beach, Calif.	"Measuring Small Phase Angles"	1/11/67
	- Baruch Berman (See Above Address)	"Power Converters Using Magnetics and Semiconductors"	II.

EGION 6	Speaker and Address	Title of Speech	Date Presented
ection	Speaker and Madress	All and the second seco	120 1//
os Angeles	- J. Reese Brown, Jr.	"Time Domain Characteriza-	11/30/66
Council (Cont'd.)	Burroughs Corp.	tion & Specification of Pulse	
	460 Sierra Madre Villa Ave.	Transformers"	
	Pasadena, Calif. 91109	Geest Neck N. 1	
	- L. J. Johnson	"Packaging Considerations	
	Autonetics	for Shielding Electronic	
	3370 Miraloma	Packages'	
	Anaheim, Calif. 92805		
	Andrew Nizynski	"Magnetic Core Stack	10/26/66
	Lockheed Electronics Co.	Design Considerations"	
	Los Angeles, California		
	mod adopting the		100 1//
San Francisco	Donald F. Eldridge	"A Review of the Second	11/29/66
	834 Cascade Dr.	International Magnetic	
	Sunnyvale, Calif. 94087	Conference, Budapest,	
	Melbourne, Nin. 92901	Oct. 1966"	
	E D Wohlfauth	"Interaction in Magnetism"	8/16/66
	E. P. Wohlfarth Imperial College of Science	A STATE OF THE STA	
	and Technology		
	London, England		
	MICROWAVE THEORY & TEC	CHNIQUES	
	MICROWAVE THEORY & TEO	ngs MA	
REGION 1		ngs MA	
REGION 1	Group Chapter Meeting	ngs A 4A Tolt Seitchiau XAO	2/23/67
	Group Chapter Meeting	ngs MA	
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC	ngs "R & D for Space	
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square	ngs "R & D for Space	
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC	ngs "R & D for Space	2/23/67
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square	ngs "R & D for Space	
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair	"R & D for Space Communications	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139	"R & D for Space Communications "Planar Ferrite Devices	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits"	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co.	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits"	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y.	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston	"Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars"	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y.	"Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars"	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar"	2/23/67 12/7/66 11/17/66
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar" Panel Discussion: "Solid	2/23/67
REGION 1	Group Chapter Meeting Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker MIT Lincoln Lab.	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar"	2/23/67 12/7/66 11/17/66
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker MIT Lincoln Lab. Lincoln, Mass. 01773	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar" Panel Discussion: "Solid	2/23/67 12/7/66 11/17/66
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker MIT Lincoln Lab. Lincoln, Mass. 01773 - M. Grace; T. Leonard	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar" Panel Discussion: "Solid	2/23/67 12/7/66 11/17/66
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker MIT Lincoln Lab. Lincoln, Mass. 01773 - M. Grace; T. Leonard - R. Holmstrom; F. Sterzer	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar" Panel Discussion: "Solid	2/23/67 12/7/66 11/17/66
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker MIT Lincoln Lab. Lincoln, Mass. 01773 - M. Grace; T. Leonard - R. Holmstrom; F. Sterzer (Addresses unknown) Contact:	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar" Panel Discussion: "Solid	2/23/67 12/7/66 11/17/66
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N. Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N. Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker MIT Lincoln Lab. Lincoln, Mass. 01773 - M. Grace; T. Leonard - R. Holmstrom; F. Sterzer (Addresses unknown) Contact: IEEE Boston Section Office	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar" Panel Discussion: "Solid	2/23/67 12/7/66 11/17/66
REGION 1	Dr. L.C. Van Atta NASA /ERC 575 Technology Square Cambridge, Mass. 02139 Hugh A. Hair Syracuse University Research Syracuse, N.Y. 13210 Peter J. Kahrilas Sperry Gyroscope Co. Great Neck, N.Y. Robert H. Kingston MIT Lincoln Lab. Lexington, Mass. 01773 - Robert H. Rediker MIT Lincoln Lab. Lincoln, Mass. 01773 - M. Grace; T. Leonard - R. Holmstrom; F. Sterzer (Addresses unknown) Contact:	"R & D for Space Communications "Planar Ferrite Devices for Microwave Integrated Circuits" "Low Cost Phased Array Radars" "Coherent Infrared Radar" Panel Discussion: "Solid	2/23/67 12/7/66 11/17/66

REGION 1 - Continue	ed ed to suit?		
Section	Speaker and Address	Title of Speech	Date Presente
Schenectady	Dr. Kiyo Tomiyasu General Electric Rm. 465, Bldg. 37 Schenectady, N.Y.	"What Are Lasers Good For"	11/15/66
REGION 2			
Washington, D.C.	John Turtora (Address unknown) Contact Section Secretary: George Abraham 3107 Westover Dr., S.E. Washington, D.C. 20020	"Multi-Octave Band Microwave Receiver Techniques"	1/10/67
	Floyd Maxwell Guidance Div. of Missile Systems Dept. U.S. Naval Ordnance Lab. Corona, California 91720	"State of the Art Techniques in Multiband Solid-State Oscillators"	12 /13 /66
REGION 3			
Florida West Coast	George Kaposhilin Hewlett-Packard Associates 620 Page Mill Road Palo Alto, California 94304	"Characteristics and Applications of New Microwave Diodes; Hot Carrier Diode (HCD) and Step Recovery Diode (SRD)"	2/22/67
	Earl D. Russell Adams-Russell Co. Waltham, Mass. 02154	"The Practical Applications of Microwave Techniques in the Frequency Region	1/25/67
	Dr. John P. Curtis Adams-Russell Co. Waltham, Mass. 02154	Between 1 Mc and 1 Gc" "Generation and Control of RF Signals Using Symmetry Devices to Isolate Signal Components"	11
REGION 4			
Milwaukee	Dr. Robert Adler Zenith Radio Corp. 6001 Dickens Ave. Chicago, Illinois 60639	"Interaction of Sound and Light"	1/24/67
REGION 5			
Dallas	Frank Haneman Airborne Instruments Lab. Walt Whitman Rd. Melville, N.Y. 11746	"Solid-State Microwave Frequency Generators"	11/15/66
REGION 6	Wiciville, N. I. 11740		4120700
Los Angeles Council	- Anthony M. Briana - Mak C. Mohr Raytheon Hartwell Rd., Bedford Massachusetts 01730	"Tactical Phased Array Antennas"	
San Francisco	Harry Cook Texas Instruments Dallas, Texas 75222	"Microwave Integrated Circuits"	11/16/66

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Section	Speaker and Address	Title of Speech	Date Presented
	NUCLEAR SCIENCE Group Chapter Meetings	Section and Date Speaker an Schenecter, and Schenecter, Taylor	
REGION 1			
Connecticut	Prof. D. Alan Bromley Yale University New Haven, Conn. 06520	"Description of MPII Tandem Van de Graaf Accelerator"	11/15/66
REGION 2			
Washington	Dr. Rollon O. Bondelid Naval Research Lab. Washington, D.C. 20390	"The NRL Cyclotron Facility"	12/7/66
REGION 6			
Los Angeles Council	Arthur Conow Giannini Controls Corp. 1600 So. Mountain Duarte Calif. 91010	"Radiation Safety"	1/9/67
	Dr. Kenneth Weiner (Address unknown) Contact Council Office: IEEE Los Angeles Council 3600 Wilshire Blvd. Los Angeles, Calif. 90005	"Radiation Detectors"	11/7/66
	Jim Vette Aerospace Corp. San Bernardino, Calif.	"Radiation Effects on Electronic Components"	9/26/66
San Francisco	L. J. Lloyd US Lawrence Radiation Lab. Berkeley, California	"High-Altitude Particle Physics Experiments"	12/12/66
	- Bernard Bernstein - Dr. William T. Link Physics International Co.	"Pulsed Power Research and Application to Nuclear Science"	9/19/66
	2700 Merced St. San Leandro, Calif. 94577		
	PARTS, MATERIALS and PAC Group Chapter Meetings		
REGION 1	MIT Lineals Lab	State Sources"	
Boston	Arthur W. Sinkinson Radio Corporation of America Burlington, Mass. 01803	"Mechanical Design of the L.E.M."	1/24/67
	H.H. Scott H.H. Scott, Inc. Maynard, Mass. 01754	"Designing for the High Fidelity Industry"	9/29/66
New York (Metropolitan)	D. N. Schocket Assoc. Testing Labs., Inc. Wayne, N.J. 07470	"The Impact of Reliability Specs on Parts Selection & Testing"	5/17/66

REGION 1 - Continued			
Section	Speaker and Address	Title of Speech	Date Presented
New York (Metropolitan) (Cont'd.)	Clifford L. Funk (Address Unknown) Contact Chapter Secretary: Wayne D. Moyers	"Automotive Tape Players - Example of Commercial Quality Requirements"	4/19/66
	214 Ocean Ave. Amityville, L.I. 11701		
	P.J. Kennedy U.S.A. Sattelite Comm. Agency Ft. Monmouth, N.J. 07703	"Army Activities In Develop- ment of Satellite Applications"	2/15/66
	A. J. Lofaso Sperry Rand Corp. Great Neck, N. Y.	"High Reliability Components Used for Inertial Nav. Systems"	1/18/66
	M. Klugman Grumman Aircraft Farmingdale, L.I., N.Y.	"Multi-Layer Boards - Construction & Application"	1/18/66
REGION 2			
Philadelphia	James R. Lampman General Electric Co. Valley Forge, Penna. 19481	"Plastics in Spacecraft Design"	1/26/67
REGION 6			
San Francisco	Donald Higgins PAECO Div., Hewlett-Packard Co. 3215 Porter Dr. Palo Alto, Calif. 94304	"Printed Wiring"	9/27/66
	William W. Chiang Surveyor Project Office Jet Propulsion Lab. Pasadena, California	"Surveyor"	10/27/66
	Pasadena, California		
	POWER Group Chapter Meetings	Schooling Terror	
REGION 1			
Binghamton	William E. Sturm West Penn Power Co. Greensburg, Pa. 15601	"The All-Electric Auto"	1/10/67
Boston	F. C. VanWormer 26 Witbeck Dr. Scotia, N. Y. 12305	"Newer Developments for Underground Distribution for Residential Areas"	11/15/66
	Paul Robinson General Electric Co. 140 Federal St. Lynn, Mass. 01905	"Present Day Trends in Supervisory & Telemetering Systems"	9/20/66
	A. T. Haendler Boston Edison Co. 800 Boylston St.	"Big 11 Power Loop"	10/18/66
	Boston, Mass. 02199		

Section	Speaker and Address	Title of Speech	Date Presented
Connecticut	John G. Anderson	"EEI - EHV Transmission	1/17/67
Connecticat	General Electric Co.	Research Project''	
	100 Woodlawn Ave.	mod Ashebha) tunindo stoliki	
	Pittsfield, Mass. 01201		
	Bates M. Murphy	"Computer Application to	9/20/66
	Westinghouse Elec. Corp.	Power Engineering"	
	Pittsburgh, Pa.		
	the Course America main of Suits		
Maine	Richard Emmons	"AC Network Digital Computer	2/15/67
	Central Maine Power Co.	Load Flow Program"	
	Augusta, Maine 04330		
Phat Nev, Systems"	A.E. Malan	"Engineering of The Pacific	1/18/67
North Jersey	A. F. Molnar (Address Unknown)	HVDC Transmission System"	1/10/01
	Contact Section Secretary:	117DO 11anomisoson System	
	Merle M. Irvine		
	R. D. #1		
	Mendham, N.J. 07945		
	- W.G. Osborne	"The Theory of Electrical	12/15/66
	- Richard J. LaPak	Connections	
	Burndy Corporation		
	Norwalk, Conn.		
Rochester	Frank J. Shields	"The Problem of Arcing	1/12/67
Rochester	General Electric Co.	Faults in Low Voltage	
	l River Rd.	Systems''	
	Schenectady, N.Y. 12301	WHE DINARY ORESERVE AND	
		Addition like to the	10/10///
Schenectady	- Philip L. Alger	"Present Trends in Teaching	10/18/66
	- Dr. Edward J. Smith	in the Field of Energy Conversion"	
	Rensselaer Polytechnic Inst. Troy, N.Y. 12180	Conversion	
	110y, N. 1. 12100		
	J.P. Franz	"Developments in Liquid -	12/12/66
	General Electric Co.	Cooled Hydro-Electric	
	1 River Rd.	Generators in Europe"	
	Schenectady, N.Y. 12301		
- Da			
REGION 2			
Baltimore	Gregory S. Vassell	"American Electric Power	2/21/67
Daltimore	American Electric Power	System - 765 KV AC	2,21,01
	Service Corp.	Development'	
	2 Broadway	A THE REAL PROPERTY OF THE PRO	
	N. Y., N. Y. 10004		
	mer "Newer Deve	Boston C.C. VanWer	. / // .
	John J. Dougherty	"D. C. Systems and Their	1/17/67
	Edison Electric Inst.	Integration into A. C. Grids'	
	(Address unknown) Contact Section Secretary:		
	L. G. Larsen		
	6804 Dunhill Rd.		
	Baltimore, Md. 21222		9769
Cleveland	T. Bolla; D. Griffith	"Static Inverters"	10/25/66
	(Address unknown)		
	Contact Section Secretary:		
	H. H. Heller		
	1769 Middlehurst Road		

REGION 2 - Continue

Section	Speaker and Address	Title of Speech	Date Presented
Dayton	Adolph C. Neaderland Burndy Corp. Norwalk, Conn.	"Sodium Cable & Connector Applications"	1/10/67
	Orin W. Queen Dayton Power & Light Co. 25 N. Main St. Dayton, Ohio 45402	"Testing High Voltage Equipments"	9/8/66
Lehigh Valley	Gerald L. Master Metropolitan Edison Co. P.O. Box 542 Reading, Penna. 19603	"Air Pollution Control"	12/2/66
Philadelphia	Paul Davidson Philadelphia Electric Co. 900 Sansom St. Philadelphia, Penna. 19107	"Application of the IBM '360' Computer to P-J-M Interconnection Operating Problems"	11/29/66
Pittsburgh	- Ralph L. Melaney Equitable Gas Co. 420 Blvd. of Allies Pittsburgh, Penna. 15219 - Uldis A. Kakulis Allis-Chalmers Mfg. Co. Milwaukee, Wis.	Panel Discussion: "Future Energy Sources"	1/11/67
Sharon	J.C. Thompson Houston Lighting & Power Co. Houston, Texas	"Phenomena of Corona"	1/25/67
Washington	Arthur W. Maas I-T-E Circuit Breaker Co. Greensburg, Penna. 15601	"A Three-Phase, AC Third Rail System for the San Francisco Bay Area - Rapid Transit District Test Track"	1/10/67
REGION 3	Vince S. Boyer Philadelphia Electric Co. Philadelphia, Penna.	"Current Status of Peach Bottom Atomic Power Station"	11/8/66
Charlotte	K.C. Wein Westinghouse Electric Corp. So. Philadelphia, Penna.	"Basic Gas Turbines, Generator Application and Peaking Application"	2/20/67
	C.C. Young General Electric Co. Schenectady, N.Y. 12301	"Power System Stability"	1/16/67
Florida West Coast	R.A. French Florida Power & Light Co. Sarasota, Florida	"Distribution Lightning Protection; Apparatus, Testing and Experiences"	3/1/67
	Marvin M. Bostian Tampa Electric Co. P.O. Box 111 Tampa, Florida 33601	"High Voltage Circuit Breakers"	2/8/67
Memphis	Dr. Stuart Jackson Solid-State Controls Inc. Columbus, Ohio	''Systems Controls''	2/13/67

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Cleveland, Ohio 44118

REGION 3			Date
Section	Speaker and Address	Title of Speech	Presented
Memphis (Cont'd.)	Everett L. Hook Wagner Electric Corp. St. Louis, Missouri	"Use of Aluminum in the Design of Distribution Transformers"	1/9/67
New Orleans	Raymond Hess NACON Corp. 79 Sydney St. Cambridge, Mass. 02139	"Sodium Conductors"	2/2/67
	- George Halstead General Electric Co. Tampa, Florida	"The Merits of Grounded Electrical Systems vs. Ungrounded Systems"	12/27/66
	- James L. Gay Fiske-Gay Associates, Inc. Orlando, Florida		
REGION 4			
Nebraska	- Harry Van Fandt - Donald Franklin Eastman Kodak Co. Omaha, Nebraska	"Microfilm Information Retrieval System"	2/21/67
	 Wayne B. Roelle; James Miller Consumers Public Power Dist. Lincoln, Nebraska R. Allbright Omaha Public Power Dist. Omaha, Nebraska 	"Underground Distribution"	1/31/67
Southeastern Michigan	G.S. Keely Consumers Power Co. 1945 West Parnell Rd. Jackson, Mich. 49201	"Development of Commercial Nuclear Power Plants"	1/19/67
Twin Cities	Dr. David L. Douglas Gould-National Batteries St. Paul, Minnesota	"Electric-Powered Vehicles - Background and Present State of the Art"	1/18/67
	- H. J. Basil - Neal G. Jenewein Electric Machinery Mfg. Co.	"Adaptation of Vacuum Interrupters to 5 KV Switching for Large Motor	11/9/66
REGION 5	Minneapolis, Minn. 55413	Drives"	
Artifolia mar	curie Co. variance Co.	gener form	
Beaumont galantiqua as contactonal h	W. Cooper Slay (Address unknown) Contact Section Secretary: Walker L. Hopkins 3247 Woodlawn Groves, Texas 77619	"Large Synchronous Motors"	11/15/66
Central Texas	W. M. Richardson Leeds and Northrup Co. Philadelphia, Penna.	"Modern Approaches to Economic Dispatching"	1/26/67
Dallas	William Bigge General Electric Co. San Jose, California	"Nuclear Power - Today and Tomorrow"	1/26/67

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REGION 5 - Continue	<u>ed</u>	the state of the s	D-4-
Section	Speaker and Address	Title of Speech	Date Presented
Dallas (Cont'd.)	Dale V. Hotson Allis Chalmers, General	"Generator Station Var	11/15/66
	Products Div.	orange and the other areas	
ion (Rowers mai	Milwaukee, Wisconsin	J. J. reitened J. J. J	
Houston	T.C. McMichael	"Various Generation Prac	ctices 3/1/67
	(Address unknown) Contact Section Secretary:	and Future Trends"	
	A. Sidney Badger	nedar IV di peresal; proporti s, briggereli	
	11510 N. Lou Al Dr. Houston, Texas 77024	Elektric School for the	
	Agu	Control Assessment	
	John N. Holscher V. P. Solidstate Controls, Inc.	"Use of Static Inverters i Standby Power Systems"	
A andy	Worthington, Ohio 43085	TOWN OF THE PROPERTY OF THE PR	
O Mark Double at	- Kermit Williams	"Basic Power System	2/8/67
	Houston Ltg. & Power Co.	Relaying - Part II'	_,0,0.
	P.O. Box 1700 Houston, Texas 77001	Green Constant	
	- Dwight Spurlock		
3.8 - \$2.80 he	Community Public Service 702 36th St., N.	more to the S. T. Sanak	mers one
isman i post	Texas City, Texas 77590	Parmy Great dis	
	A. N. Schiff	"Static Drives - State	1/18/67
61 Bankatanit 100	Reliance Elec. & Engrg. Co.	of the Art"	1710701
	Cleveland, Ohio	stable and expensive ser	
St. Louis	G. J. Vencill	"Power System Inter-	1/23/67
	Union Electric Co. 721 S. 18th St.	connections"	. अध्यक्षतात्त्व व
V.	St. Louis, Mo. 63103	As Id Vellage Distribution	Loggical
REGION 6	dries lating to the later of the		ALLOCATE CONTROL
Foothill	- J. McCarthy	"New Developments in	12/12/66
	- K. Baricevic Westinghouse Elec. Corp.	Switchgear & Protective Devices'	10/11.006
13 Benchilans	Los Angeles, Calif.	numpicali A	
Phoenix	Stephen M. Chalmers Salt River Project	"Computerized Superviso	ry 2/16/67
na tot societ	P.O. Box 1980		Sales Part
of Water	Phoenix, Arizona 85001	gridaoW oxibenxi2	
REGION 2 "avail	Harold Taylor	"Sodium Underground	1/12/67
(i Dolasingoloviki "kanli sevo	Arizona Public Service Phoenix, Arizona	Cables & Latest URD Developments'	
Portland	- H. G. Barnett	Panel Discussion: "Unde	
	Portland General Electric Co. Portland, Oregon 97205	ground Residential Distr	i-
A.S. Sunt - an	- R.C. Miller	- around W. J. M. Proposition Common	Six n'extremity
	Pacific Power and Light Co. Portland, Oregon 97204	Priestluceus, St. Da	*
of Prans-	R. E. Dievens	"Transmission Line	1/11/67
ects of the salgness on River	Facilité Fower & Light Co.	Location and Design'	
	Portland, Oregon 97204	Property of the party of the pa	
	E.J. Harrington	"Recent Developments in	11/9/66
	Bonneville Power Admin.	Power Circuit Breakers	
	Portland, Oregon		

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REGION 6 - Continued			
Section	Speaker and Address	Title of Speech	Date Presented
Portland (Cont'd.)	Peter L. Bellaschi 7414 S.E. Yamhill St. Portland, Oregon 97215	"Power Transformers"	10/12/66
	Lyman E. Rinker Leupold & Stevens, Inc.	Panel Discussion: "Power Generation Planning"	9/14/66
of Sventers to 2/1	Portland, Or. 97213 D. A. Gillies: Moderator	Panel Discussion:	2/24/66
	Bonneville Power Admin. Portland, Oregon A. R. Batiste; M. B. Elton (See Above Address) D. L. Brown Portland General Elec. Co. Portland, Oregon	"X-Ray Techniques in Power System Maintenance"	
San Francisco	T. A. Bettersworth Pacific Gas & Electric Co. San Francisco, California	"Replacement of Over- head with Underground Distribution Facilities"	11/15/66
	Thomas F. Horton Westinghouse Electric Corp. Baltimore Underseas Div'n, Baltimore, Md.	"The CACHALOT Sustained Deep Diving System"	10/11/66
REGION 7			
Montreal	John F. Skeaff Canada Iron Foundries Ltd. 160 St. Joseph Lachine, Que., Canada	"SCR Applications in Industrial Drives"	12/6/66
	P. Benignus Monsanto Canada Ltd. 425 St. Patrick St. La Salle, P.Q., Canada	"Transformer Askarel	11/8/66
Toronto	P.A.B. Wooldridge Canadian Westinghouse Hamilton, Ont., Canada	"Solid State Devices for Field Control of Water Wheel Generators"	2/9/67
	N. J. McMurtrie Ontario Hydro 620 University Ave. Toronto, Ont., Canada	"Trends in the Development of EHV AC Tower Lines"	1/12/67
	egon 97205 ciltr east busheel at	Portland, Or	2 // // 7

Section	Speaker	and Address	Title of Speech	Presented
	POWER and	INDUSTRY & GENERAL	APPLICATIONS	
	J	oint Groups Chapter Mee	tings	
REGIO	N 1			
	Trans. 15			
New Yo	, . Buck	J. L. Brown	Panel Discussion:	12/8/66
(Metro)		es unknown)	"Copper or Aluminum in	
		Chapter Secretary:	Switchgear"	
	F. P. Fa	rinella		
	VIC Pow	er & Industrial Div. ervice Elec. & Gas Co.		
	80 Park	Pl., Rm. 7323	byznyka, Reliability	
	Newark,	N. J. 07102		
	- E D Fic	h; A.R. Waehner	A: boticeU	
	- R. Sharp		"Trends in Transmission and Distribution"	11/30/66
	(Address	es unknown)	and Distribution	
	Contact ((See Abov	Chapter Secretary:		
	(See Abov	7e)		
	Ralph H.	Hopkinson	"Lightning Protection of	11/29/66
		Electric Co.	Substations"	11/2//00
	l River R Schenecta	.d., N. Y. 12305		
	- F. J. Figi		Panel Discussion:	11/15/66
	- J. P. Key Con Edisc		"Fault Locating on	
	N. Y. C.,		Underground Power Cables''	
	MIL-HDBK-217A			
	F. E. Mor	tmeat rvice Electric & Gas Co.	"Economics of Higher	11/15/66
	80 Park F		Voltage Distribution"	
	Newark, 1	N. J. 07102		
	- Leo Flood	; William Henke;	Devel Di	
	- Richard H		Panel Discussion: "Air Pollution"	10/11/66
	Contact:	(Address onkosille).A.D	hant-limited Court of Star	
	F. P. Far:	nella r & Industrial Div.		
		vice Electric & Gas Co.		
	80 Park P	l., Rm. 7323		
	Newark, N	J. J. 07102		
REGION	2 molunil of bolooks turn			
Delaware	Pour Dia n	Trent Trent		
Delaware	the second secon	Detjen Power & Light Co.	"Grounds for Discussion	1/26/67
		n, Delaware	(Grounding)"	in our face
		RELIABILITY		
		Group Chapter Meetings		
REGION		same as Above) assignosis		*
Binghamt		Harrahy	"Flowgraph Solutions to	2/13/67
	Raytheon	6. 01770	Complex System Reliability	2/13/01
	wayland, N	Mass. 01778	and Availability Models"	
Boston	John W. Cl	napin	"Mariner Space Data	1 /12 /47
	Honeywell	Computer Control Div.	Computer Reliability"	1/12/67
	Framingha	m, Mass. 01701		

Canadian General Elec. Co., Ltd.

Peterborough, Ont., Canada

Winnipeg 1, Manitoba, Canada

N. L. Williams

L. M. Hovey

Manitoba Hydro Box 815

Vancouver

2/6/67

1/16/67

"Nuclear Power - Fact

"Generation and Trans-

mission Aspects of the

Phase I Nelson River

Development"

or Fancy"

Section	Speaker and Address	Title of Speech	Presented	
Boston (Cont'd.)	Prof. M. L. Shooman		12/1/66	
	Polytechnic Institute of Brooklyn	in Reliability Design"		
	333 Jay St.			
	Brooklyn, N.Y. 11201			
	E. Parker	"C-5A Reliability and	10/27/66	
	Lockheed-Georgia Co.	Maintainability"		
	Marietta, Georgia 30060	Conta		
	H. H. Scott	"Designing for the High	9/29/66	
	H. H. Scott, Inc.	Fidelity Industry"		
	Maynard, Mass. 01754	ed 18		
	A. Gillier Moderate 100 C. M. of	"The Cost of Unreliability"	2/21/67	
Connecticut	Henry R. Hesse	The Cost of Chrenability	_,,	
	United Aircraft Corp.			
	Corporate Systems Center Farmington, Conn. 06032			
	in a series of the series of t			
	Joseph G. Wohl	"Cost Effectiveness	12/12/66	
	Dunlap & Associates, Inc.	Workshop"		
	Darien, Conn. 06820		125	
San Fale Bella state want	- Jerry Mullen; Richard Soltis	"Production and High	10/20/66	
	Vitramon, Inc.	Reliability Testing of		
	Bridgeport, Conn.	Monolithic Porcelain		
	Tannas P. Isreton (was)	Capacitors'	11	
	- Paul L. Neyhart	"MIL-HDBK-217A: Its		
	RCA	Background"		
	Camden, N. J. Trifon Prasinos	"Users Comments on	11	
	Grumman Aircraft Engrg. Corp.	MIL-HDBK-217A''		
	Bethpage, L.I., N.Y.			
	Service Electric & Clas Cours Voltage	All pullcariess in	0/10///	
	- Howard A. Van Dine	"Reliability in D. O. D.	9/19/66	
	Missiles & Armament Div.	Contracts		
	General Electric Co.			
	Burlington, Vt. 05401 - Joseph H. Levine	"Apollo Spacecraft	11	
	Rel. and Q. A. Div.	Reliability Program		
	Manned Spacecraft Center	Control'		
	Houston, Texas			
	THE ELECTRIC II GAS CQ.	UP aliability Paguinamenta	2/16/67	
North Jersey	- Philip H. Eisenberg	"Reliability Requirements and Analysis for Components	2/10/01	
	Autonetics, Div. N. Amer. Aviation Anaheim, Calif. 92805	Needed in Minuteman Type		
		of Program"	11 12 16 7	
	- Robert L. Trent	"Component-Reliability and Standardization		
	NASA Research Center Cambridge, Mass.	Philosophy of NASA''		
	Cambridge, Wass.	Saranti M.		
	Edwin W. Kimball	"Effects of Dormancy	1/19/67	
	Martin Company	and Storage on Electronic		
	Orlando, Fla. 32805	Parts"		
	Edward Keonjian	"Microelectronics"	11/17/66	
	Grumman Aircraft	Generation and Trans-		
	Bethpage, N.Y. 11714			
	ATTEN VALUE OF THE TEN			

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REGION 2			Date
Section	Speaker and Address	Title of Speech	Presented
of Speach	Jerome Klion U.S.A.F. RADC Griffiss Air Force Base Rome, N.Y. 13440 L.B. Blumenthal MELPAR Alexandria, Va.	"System Effectiveness in the Post-WSEIAC Period - A Study of Techniques" "The Story of "EL-BAILER"	12/7/66
REGION 3			
Huntsville	Willis Willoughby NASA Headquarters Washington, D.C. 20546	"NASA Reliability"	10/12/66
	Dieter Grau Quality and Reliability Assurance Laboratory, MSFC Huntsville, Alabama	"MSFC Reliability Philosophy"	9/22/66
	Bob Unger Bendix Corp. Teterboro, N.J. 07608	"Bendix Hi-Rel Parts Program"	7/28/66
REGION 6			
Los Angeles Council	D. Osborne; Bob Korbler CBS Beverly & Fairfax Los Angeles, Calif.	"Reliability of Broad- casting Equipment"	1/17/67
	Sid Albright (Address unknown) Contact Council Office: Suite 1920 3600 Wilshire Blvd. Los Angeles, Calif. 90005	"Pilot Reliability Three Flight Simulation"	11/10/66
releasement black	R.J. Reis (Address unknown) Contact Council Office (Above) L.G. Rado R.R. 2 Northfield, Mont. 55057	"Electro Optics Star Tracking"	10/13/66
San Francisco	L. DeBenedictis Korad Corp. 2520 Colorado Ave. Santa Monica, Calif.	"High Power Lasers Performance, Limits and Future"	11/9/66
ards for the Design we-Way Mobile Radio	- W. Silver Fairchild 313 Fairchild Dr. Mountain View, Calif. 94040	"Reliability Engineering for Integrated Circuit Production"	10/12/66
oved Mobile Dist	- J. Kubinec (Address Same as Above)	"Custom Designing of Integrated Circuits"	π μ

SYSTEMS SCIENCE & CYBERNETICS Group Chapter Meetings

o Elfoctionness) acts	Speaker and Address	Title of Speech	Date Presented
Section	Speaker and Address	Title of Species	
REGION 1			
Boston	Dr. A.E. Bryson, Jr. Harvard University Cambridge, Mass. 02138	"Applications of Optimal Control Theory"	2/15/67
	Dr. Bernard Vonnegut Arthur D. Little Co. Cambridge, Mass.	"The Thunder Storm System"	12/7/66
	Dr. Harold Chestnut General Electric Co. 1 River Rd. Schenectady, N.Y. 12305	"Systems Engineering in Industry"	10/4/66
REGION 2			12/12/66
Washington	Judy Gervinski Melpar, Inc. 7700 Arlington Blvd.	"Evolutionary and Self- Structuring Systems"	12/20/66
	Falls Church, Va. Dr. Eugene Konecci National Aeronautics and Space Council Washington, D. C.	"Cybernetics and Management"	11/15/66
	VEHICULAR COMMUNICAT Group Chapter Meeting		4110706
REGION 2			
Cleveland	A. Weltman Antenna Specialists Co. 12435 Euclid Ave. Cleveland, Ohio 44115	"Electrically Shortened Low Band Antennas"	1/17/67
REGION 4			
Chicago	Earle A. Petersen FCC Chicago Field Office Chicago, Illinois	"FCC Field Monitoring Program"	1/19/67
Southeastern	W.G. Chaney	"Good Engineering	1/26/67
Michigan	General Electric Co. Mountain View Road Lynchburg, Va.	Standards for the Design of Two-Way Mobile Radio Systems"	
REGION 5			
Dallas/Ft. Worth	A.T. Corbin Southwestern Bell Tel. Co. S. Akard St. Dallas, Texas	"Improved Mobile Dial Telephone Service for Dallas"	1/24/67
Houston	Ray Ransome Shell Oil Communications Co. Houston, Texas	"Current Developments in FCC Frequency Allocations"	3/9/66

G	IC	N	6	
	. 10			

Section	Speaker and Address	Title of Speech	Presented
Los Angeles Council	John R. Gliessman ARINC Research Corp. Santa Ana, California	"System Design Using Integrated Circuits"	1/9/67
	Don Roberts Arizona Public Service Phoenix, Arizona	"Thermo-Electric Powered VHF Stations"	10/10/66
San Francisco	Capt. C. B. McMurphy County of Alameda 2000 150th Ave. San Leandro, Calif.	"Alameda County Communications Center"	11/17/66
	Barry Kaufman MU-Western Electronics, Inc. San Carlos, Calif. 94070	"Tone Signalling"	10/20/66
REGION 7			
Montreal	Ole K. Nilssen Ford Motor Co. P.O. Box 2053 Dearborn, Michigan 48123	"Automotive Electronics"	4/20/66

Date

VEHICULAR COMMUNICATIONS and COMMUNICATIONS TECHNOLOGY Joint Groups Chapter Meetings

REGION 2

Philadelphia	W.J. Hannan RCA Labs. Princeton, N.J. 08540	"Laser Communication and Radar Systems"	2/20/67
	Charles Moore Bell Telephone Co. of Penna. Broad St. Philadelphia, Pa.	"Information on the Move"	1/11/6

have been made to secure advantages of uniform, calendar-year-end expiration of dues, Group fees, and subscriptions. . . (109) A dues concession has been made for Students in Regions 8, 9, 10, transferring to higher grade. . . (302, 303) Different relations have been set up with IEEE's investment advisor. . . (307) TAB's General Committees' size and responsibilities have been modified. . . (401) Certain additional funds, and dues concessions to transferring Students, have been granted to Regions 8, 9, 10. . . (402) Basic Section, permeeting, and Chapter-member, allowances have been increased (E.E. No. 9, p. 3). . . (602) Summer general meetings have been discontinued as a requirement. . . Also "editorial" and minor revisions.

ENGINEERS JOINT COUNCIL (EJC). On March 30, 1967, the IEEE delegates to the EJC General Assembly abstained from voting on the slate of EJC Directors. Particulars bearing on this significant development are detailed at the end of this issue of ELECTRICAL ENGINEERING.

THE SECRETARY'S ANNUAL REPORT. 1966, was before BofD in March. A digest will appear in June Spectrum. Some tidbits for E. E. readers: Membership percentages by grades: F-2, SM-16, M-61, A-9, S-12. . . Membership ranking by Regions: (top) 1, 6, 2, 4, 3, 5, 7, 8, 10, 9; the top 3 have 62% of all members. . . Biggest Section in number of members is San Francisco, followed in order by New York, Boston, Washington, Philadelphia, North Jersey, and Chicago. . . Throughout the world, Subsection plus Chapter meetings matched Section meetings 1-for-1. . . 55 of the 195 Sections publish Newsletters. . . Of the 31 Groups, 27 have Newsletters, and all print Transactions (16,826 pages/yr.). . . In number of members the ranking of Groups is: (top) Power, Computer, Aerospace (A&ES), Communication Tech., Circuit Theory (range 10M-6M, Students excluded); with Students, Computer outranks Power by 300. . . All Groups' collective count of memberships including Students - 126, 791, many 'multiple-joiners' included. . . 94 of the 195 Sections nurture 457 Chapters

of 28 (out of the 31) Groups. . . In number of Chapters the Group ranking is: (top) Power, Aerospace, Microwave (MT&T), Antennas (A&P) tied with Communication Tech., Computer; Power has twice as many Chapters as Aerospace. . . During '66 IEEE participated in 97 conferences (sole or joint) having a total paid registration of 196,857 (considerably in excess of IEEE total members). . . The largest: IEEE Convention, New York, 63, 450; WESCON, 46, 184; NEC, Chicago, 19,000; 6 others, 5,000 to 3,000. (Note: Northeast Electronics Research & Engineering Meeting (NEREM, Boston) reported 21,000 gross attendance in 1966; not in Secretary's

(Note: Complete Report to Section and Group chairmen, TAB, Section Committee; mailing target, April 3.)

"ANNUALIZATION" OF CHARGES for membership dues, Group fees, and subscriptions, authorized by March BofD through Bylaw changes, will have advantages to members, Sections, and IEEE administration. Sections will soon receive suggestions how to secure maximum benefits.

The division of a calendar year, for charges, into 1st-quarter, middle-half, and 4th-quarter is easily understood; and full-year or half-year charges for the periods covered (always ending on Dec. 31 of that or the following calendar year) are defined uniformly for all purposes in Bylaws 108.5, 405.7, 501.7. Prorated bills, adjusted expiration dates, and refunds in odd amounts are avoided. All rate changes would be made effective January 1. The system is easily related to 50%-payment options. Members should welcome the simplification.

Sections will benefit from uniformity in the reporting of suspensions of memberships, Group fees, and subscriptions. Flagging for arrears may be reduced to twice a year--April 1 and September 30. This uniformity will help Sections and Groups plan campaigns to encourage reinstatements. The half-year charges applicable to the middle half-year period is adaptable to membership and subscription promotion.

It hardly needs saying that simplification for members, Sections, and Groups will result in fewer administrative "headaches" for the staff, and fewer sources of friction through misunderstanding.

TOOLS AND AIDS

A NEW MEMBERSHIP DIRECTORY for 1968 has been authorized by ExecCom. Biographies of Fellows will be included.

HICKERNELL PRESENTATION CENTER.
March '67 Spectrum, p. 15, announced
and pictured a new installation in the
Board Room at IEEE headquarters--oralvisual (non-portable) equipment available
upon advance request for committees' use
in projecting 2 x 2 slides, 16-mm motion
pictures, 2-track sound at 3 standard
speeds. (Arrangements for use, J. J.
Anderson)

(Address for staff members so indicated in E. E.: IEEE, 345 East 47th Street, New York, N. Y. 10017)

Other projection and recording equipment, not exclusively tied to Board Room use, continues to be available. (Arrangements: Sections consult Miss Emily Sirjane; Groups and others, R.M. Emberson)

IEEE INTERNATIONAL CONVENTION

PAID REGISTRATIONS: Over 58,600; not a record, but excellent, considering SNOWSTORMS' impeding transportation. All records for attendance at technical sessions were broken. As usual, committees, from BofD and ExecCom to equally vital ad hocs, seized the opportunity to hold meetings. Space here prevents even token coverage.

2ND FORUM OF SECTION CHAIRMEN had enthusiastic Q&A period running into overtime, a big turnout including delegates from Tokyo, London, Benelux countries, Mexico, other Latin America; total attendance, 105.

Problems brought up by the Section officers were chiefly economic: a presentation by Treasurer Granger became a

providential target. The new \$25 dues level bears heavily upon junior and retired engineers and those from countries unaccustomed to \$7,000 starting salaries. Some Sections, it seems, are richer than others: a share-the-wealth suggestion was made, but no consensus was reached.

Sections having most trouble with papers programs are in remote or sparsely-settled areas. The "Speakers Directory" now being sent with each issue of E.E. could be improved by some sort of an evaluation of papers and speakers by reporting Section; this will be done, the suggestor was told.

A panel, headed by General Manager Fink and V-P Blackmon fielded criticisms of management, offered constructively; and accepted garlands, including a bouquet from London for prompt and sympathetic handling of staff correspondence.

The General Manager had presented an informative survey of the entire IEEE organization; copies were made available for Regional and Sections' use. (Additional copies, Miss Betty Stillman.)

The assemblage was called to order on one leg by President MacAdam, survivor of a giant slalom in a Rocky Mountain snowdrift. Spurning his crutches, his participation in the orderly debate was lively and wide-ranging.

Most applause was accorded Past-President Shepherd for his spirited defense of the past and present record of the Institute as a factor in total technological advance. Our papers are basic to textbooks, textbooks to teaching, and teaching to the preparation of engineers in and out of our Society. Participation in IEEE affairs carries with it at least that much prestige. (On-spot report by Editor, E. E.)

STUDENT BRANCH COUNSELORS PAR-TICIPATED in a discussion of their problems; representation from the colleges exceeded 70. Difficulties experienced with our rules of operation were aired. Some of them will be helped by Bylaw changes (105, 407; see that topic, above, and pink Supplement). A recent Form, purporting to obtain from a graduating Student his addressfor-mail after graduation, is naively optimistic, it was held. Relationships between some Sections and local colleges are not ideal. One Counselor said he could get more suitable Branch speakers from his Section by naming them himself rather than letting the Section pick them; to maintain Student attendance at meetings, it is necessary to cater to their preference for "horizon and glamour" topics.

Unanimous appreciation was expressed to Ted Hunter, who was present, for founding and carrying on the <u>Student Journal</u> until his recent resignation as Editor.

(On-spot report by Editor, E. E.)

1968 CONVENTION PLANNING. TAB has been made responsible for 1968 Convention's technical program including special highlight session. A "philosophy" has been adopted (approved by ExecCom), key expressions being: to complement Group activities . . not to serve purposes of specialized conferences . . programs which cross interests of several Groups but do not belong clearly to any . . promote cross-fertilization . . explore areas of future . . first-class tutorial sessions on "emerging" technologies . . a forum and rallying point for the profession . . broad exposure to material of new, current interest; avoiding treatment of specialized areas in depth . . "Spectrum format" as opposed to "grouping of Transactions". . orient archival-value material elsewhere . . teaching sessions, possibly with university staff.

Chairman of 1968 Convention's technical program committee: E. W. Herold, relieving 1967's successful A. B. Giordano.

ExecCom in February recommended an ad hoc committee chaired by J. V. N. Granger to study the Convention as a whole, services rendered it by Staff, and recommend most appropriate organization and management.

"FOR YOUR INFORMATION"

IEEE'S BUDGET. Q. - Is the budget published in Spectrum? A. - Ordinarily not. Spectrum, October '66, p. 61, ran a comparison between 1966 and tentative 1967

budgets to show apportionment of income from increased dues--news of concern to every member. Revised, this tentative budget had become the "Comparative Budget Review 1966-1967" before the new BofD on January 4, 1967; as approved, it became the "1967 Operating Budget." Whereuponit was determined that "budget review material, in depth," be sent to Directors before the March 24 meeting and that "a narrative accompany each budget item." That was done. A budget, subject to that meticulous supervision and constant revision, is not well suited to annual publication.

Operating results are something else. With the Treasurer's and audit reports in the June Spectrum each year there is a 2-year comparative statement of income, expenses, and financial position--proof of the budgeting operation, certified, closed.

From ExecCom minutes 2/14/67: "Dr. Shepherd moved that commendation be given to General Manager Fink and staff for maintaining excellent control of the budget for 1966. (Unanimously approved.)"

ENCAPSULATED WISDOM. "Some time in the not too distant future the publishing proliferation must be resolved. The number of IEEE members who want to publish is growing, yet an individual member is limited to how much he can read."--V-P S. W. Herwald

CONGRATULATIONS, NEW REGION 9!
The new Spanish-language technical periodical, "IEEE Electrolatina," was launched February 6-7 at the first meeting of its editorial board, in Mexico City. (Photos with captions, Spectrum, April '67, p. 26)

NATIONAL ELECTRONICS CONFER-ENCE. International Amphitheater, Chicago, replaces McCormick Place, destroyed by fire 1/22/67, as site of N. E. C., October 23-25, '67; no change in dates. (Spectrum, March '67, p. 16)

ORGANIZATIONAL ROSTER, JAN. '67. Correction: p. 13, TAB personnel, 1967: S. W. Herwald, Chairman, Westinghouse Electric Corp., P. O. Box 2278, Pittsburgh, Pa. 15230; R. W. Sears, Vice Chairman;

R. M. Emberson, Secretary; J. E. Brown; Werner Bucholz; J. H. Kinghorn; T. M. Linville; L. G. Paddison; Kiyo Tomiyasu; L. C. Van Atta; A. K. Wing, Jr.; Liaison: (Treas.) J. V. N. Granger; (Sections) L. C. Holmes; (Publication Board) F. K. Willenbrock; Ex-Officio: Chairmen of IEEE Groups and General Committees.

Diagram, p. 1: Internal Communications Committee appears twice; erase from "Board" column. Last column: "New Technical & Scientific Activities".

"ELECTRICAL ENGINEERING" will be received late, not due to new face-lifting but because press was stopped for Convention and BofD 3/24/67 news and Bylaw changes.

Miss Audrey L. van Dort has been appointed staff secretary of the Internal Communications Committee, producers of E.E., to permit J.M. Kinn to concentrate on his expanding educational assignments.

E. E. has <u>discontinued</u> the listing of staff assignments, Directors, officers, etc., in a box on page 2 of each issue because they are available monthly in Spectrum, first editorial page after table of contents.

BELIEVE IT OR NOT, some members continue to address IEEE at "Box A, Lenox Hill Station." Don't! The place where we lived has been torn down so long ago that tenants in the replacing building are already in arrears for rent. (IEEE, 345 East 47 St., New York, N. Y. 10017--please!)

IEEE PARTICIPATION IN EJC

The interdisciplinary aspects of IEEE's work with other branches of engineering have engaged the attention of the IEEE Board of Directors. One question is whether such work is best served by ad hoc associations, formed to meet a specific need, with particular groups that have a common interest, or whether a more general approach should be taken by continuing our association with the Engineers Joint Council. The Board will

consider these alternatives at its August meeting. Statement of the problem as seen by IEEE, presented to the EJC General Assembly on March 30, available from General Manager Fink on request. Comments welcome.

WELCOME ABOARD!

New Group Chapters in Sections:

Section	Chapter
Joint: Canaveral Daytona	Reliability
Cleveland	Industry & Gen. Appl.
Dallas	Joint: Auto. Control Computer
Houston	Communications Tech.
Montreal	Communications Tech.
New Jersey Coast	Computer
*Joint New York Long Island	*Reliability
Northern New Jersey	*Reliability
Ottawa	Power
Providence	Joint: Aerospace & E S Geoscience El.
Rochester	Communication Tech.
St. Louis	Aerospace & E. S.
St. Louis	Computer
San Diego	Communication Tech.
Vandenburg	Eng. Management

* To correct E.E. No. 9, p. 8