

# ELECTRICAL ENGINEERING®

## GENERAL NEWS

**ARRANGEMENT OF ITEMS IN E. E.** The Executive Committee (ExCom) on March 16 referred to the Internal Communications Committee (ICC) for study and review a suggestion that "Electrical Engineering" (E. E.) be arranged in subdivisions, like Conferences, Sections, Groups. To help ICC's study, this issue takes that form. Chairman J. C. Bregar will appreciate field comments prior to ICC's meeting, June 27, care Audrey van Dort, secretary.

**APPROACH-SHOTS FROM A SANDTRAP.** Director Williams, Region 8 (Europe), to Section editors: Ours is a Region of 40 countries with strong national characteristics, wide ethnic and political differences, containing such phenomena as the Berlin Wall, the Iron Curtain, and far from peaceful conditions across the River Jordan and the Suez Canal. It is a Region embracing strongly entrenched national institutions in our field, which regard with some suspicion the entry into their area of what appears to be an American professional society with CIA and brain-drain connotations—a Region in which censorship of printed news at national frontiers is by no means uncommon. Into that environment we are launching our new Regional newsletter.

Past President Haggerty at IEEE annual banquet: Any evaluation of the pertinence of our profession to mankind's broader needs and problems leads to a disturbing look into the world's Pandora Box. But there is a startling coincidence between 1) elements common to such problems—

need to separate signals from noise, to store, process, interpret, display, act, feed back, and control—and 2) what electronics is all about. The sophistication of our tools now begins to match pressing social needs. Our profession has barely begun its work: the match is too close for it to be otherwise. (Read all about it in Spectrum, May '68, p. 44.)

**ANOTHER SPEAKERS LIST.** IEEE Group on Reliability has composed, with the American Society for Quality Control, the 6th issue of its "Speakers Who's Who," for use of anyone looking for a competent speaker in the Group's field. A copy goes out with this E. E. as a canary-yellow Supplement, because: 1) the work is an evolutionary model; 2) it is placing 30 to 40 speakers per year and feeds five annual conferences; 3) hence it is worthy of emulation by other Groups, and 4) if copied, like lists could be used by Chapters, Sections, conferences, generally. (Inquiries, copies, Dick Emberson)

**IEEE EMBLEM IN NEW SETTING.** As noted in E. E. Dec., p. 3, the Executive Committee (ExecCom) has authorized cere-monial bestowal of a special form of IEEE emblem pin in recognition of present and past services of Section and Group chairmen. These pins are now being manufactured and will become available on order as soon as publicized in Spectrum (perhaps July) with illustrations and prices.

Narrow circular borders, bearing in gold letters on turquoise the words "Section Chairman" and on rust tint the words "Group Chairman," will surround the



standard IEEE emblem in the color applicable to the member's grade. Ensembles may be had as ribbed-gold tie-bars or as versatile tie-tacs with an extra clutch and attached chain for tie or lapel wear.

Most sales will be direct to ordering Sections or Groups. Presentation at selected meetings is contemplated. However, individuals entitled to wear these pins may purchase them.

Similar recognition pins, in the various grades of membership, bearing in gold letters on purple the words "Life Member," will simultaneously be offered for wear by Life Members. Direct purchase by individuals is contemplated, but Sections and/or Chapters or Groups (as they may desire) may elect to order them for ceremonial presentation to members when they become Life Members. "Honorary Group Life Members," so called, are not automatically qualified for these pins.

Before contemplating retroactive presentations, it would be well to obtain a run-off list (see last item in next part of E. E. ) of the 4000+ Life Members in order to evaluate such a commitment.

**BONDING OF OFFICERS.** Statement of Policy #8-C (referred to in E. E. Apr. p. 3) was further modified by BofD in March. It now reads, in full:

8-C. Bonding of Officers of Other IEEE Entities. All officers of other IEEE entities, such as Group treasurers and Regional Officers who have the responsibility of handling funds, should be bonded. The cost of these bonds will be paid for by the IEEE entity involved, except that the cost of these bonds for Regional Directors will be paid for from Headquarters funds.

"SEE YOUR TRAVEL AGENT." He can save you money on plane flights in these days of complex competitive tariffs. If travel is at IEEE expense, Bill Keyes is interested, "ex-officio," that a travel agent be consulted. Please cooperate.

**WORD-MASTERS IN OUR MIDST.** There are, in IEEE, those to whom the manipulation of language brings artistic satisfaction. Such engineers will find pockets

of opportunity in Institute service if they will seek them out.

An example is Standards work, where much depends upon the pat selection of a word or nice turn of a phrase. . . Jobs as secretary of this-or-that become vacant by hundreds at turnover time. . . Scores of openings develop constantly in the compiling and editing of Section and Group newsletters; of Section and Conference publications. . . Then there are the 30,000+ printed pages of the principal IEEE publications annually, engaging the now-and-again attention of the largest proportion of writers among us.

How does one find so challenging a job? Like a robin finds a worm: Head cocked; stop, look, hop-hop, listen; feel with your feet. . . Volunteer.

#### COMMITTEE NEWS

**NOMINATIONS FOR HIGH OFFICE.** To the names of candidates for 1969, nominated by the IEEE Board of Directors (BofD) and reported in E. E. Apr. p. 8, have now been added the nominees of even-numbered Regions 2 to 8. All these will be published in June Spectrum, p. 10, together with a required notice as to any additional nominations-by-petition, due noon, Aug. 9 (Constitution, Art. XII, Sec. 4; Bylaw 311.5).

**WOMEN IN ENGINEERING.** The Membership & Transfers chairman has taken cognizance by adding Mrs. Vivian Carr, Member IEEE, to his committee, to promote memberships among an increasing number of women engineers in IEEE's field. Mrs. Carr is with AT&T; was administrative assistant to IEEE Past President MacAdam.

**1968 MEMBERSHIP DIRECTORY,** longer in publication stage than originally scheduled, will go out in June. For distribution notice, see E. E. Dec. pp. 4, 5.

**POLICY STATEMENT ON ADVERTISING,** transmitted herewith as a blue Supplement, was adopted by BofD in March. It should be read and preserved by all concerned with IEEE publications. (Copies, Betty Stillman)

On p. 3, top, Group publications: Note July 1, '68 deadline for requesting a study prerequisite to starting '69 ads.

Of news interest in the advertising area is the recent termination of the over-all advertising sales contract with Wm. C. Copp & Associates. Those subrepresentatives selling advertising now will report directly to IEEE headquarters, and a new group will be found to represent IEEE in the eastern United States.

A new exhibition management agreement has been signed with "Will" Copp, continuing a happy association of many years.

**SECRETARY'S REPORT FOR 1967.** Extracts, of reading and reference value to active IEEE people, will appear in Spectrum for June, p. 83.

**INTERNATIONAL STANDARDS.** The Standards Committee has re-stated IEEE procedures to be followed in maintaining coordination with international standards, and will establish a new Standards Coordinating Committee (for International Liaison) to alert IEEE committees to appropriate documents for reference and coordination. Changes will be reflected in the next issue of the IEEE Standards Manual. (Copy of re-statement only - 1 page - John Anderson)

**MICROFORM EDITIONS OF IEEE periodicals** are in the offing. Publications Board and the Technical Activities Board's Operating Committee (TAB OpCom) cooperatively are planning IEEE's use of film printouts. Two applications are under study: 1) 35 mm. microfilm, archival reproduction of the main journals of AIEE 1884-1962, IRE 1912-1962, IEEE 1963 to date and hereafter; these require projection equipment now widely available in public and institutional libraries; 2) Microfiche 10.1 x 15.2 cm (4" x 6") film sheets containing 60 to 98 microimages of pages arranged in rows with eye-readable index at top; these are adaptable for reading by individuals at home or office as well as in libraries; portable hand-held or projection viewers costing \$25 to \$100 are needed. IEEE Group on Computers plans issuing a

microfiche edition of its Transactions in 1969; other Groups may follow. Estimates point to possibility of issuing microfiche in lieu of letterpress at same Group fee—both editions at modest increment. Watch for developments.

**THE JOINT TECHNICAL ADVISORY COMMITTEE (JTAC).** Ye Editor considers IEEE management circles should be acquainted with an organization within IEEE since 1948. Sponsored by both the IEEE and the Electronic Industries Association, JTAC was formed in that year at the special request of the then FCC Chairman who felt the need for unbiased advice in the television field and the many other conflicting demands for spectrum space. The JTAC acts in an advisory capacity to Government and has underway several studies pertaining to the more effective use of spectrum space.

"ENGINEERS WITH BEDSIDE MANNERS." So goes a headline in Florida West Coast's "Suncoast Signal," referring to a lecture on the engineer/physician interface—a collaboration which has produced patient monitoring systems, automated laboratory analysis, diagnoses through telephone inputs to computers, cardiac pacers, and so on. The professional stature of engineers is raised by association with professional medicine and surgery. It can be directly channeled into Section publicity of broad public interest. (Cf. Section Public Relations and Publicity Guide, Blue Supplement to E. E. April, Document 71.)

**INFORMATION SERVICES PROGRESS.** Howard Falk, recently appointed Manager Information Services Development, to assist Howard Tompkins, comes to IEEE staff from Electro-Technology magazine, on which he was Associate Editor; previous experience included logic circuit design at Sperry-Rand Univac.

By new agreement, Engineering Index will index IEEE literature for Electrical and Electronics Abstracts (EEA—see E. E. Oct., Dec., Feb., all p. 6.)

Sweet's Technical Information Services of F. W. Dodge has been granted non-exclusive permission, on a royalty basis, to supply customers with one-time-only



single copies of IEEE editorial text for one end-user. (See News section of July Spectrum for story.)

IEEE TRANSLATED JOURNALS. Three USSR journals no longer require National Science Foundation (NSF) grants; IEEE will act as sponsor and subscription agent, Scripta Publishing Corp. as publisher. NSF grants for '68 are in process for continued publication of two Japanese journals, and initial publication of a Ukrainian periodical on Soviet Automatic Control, and of Electronics in Mainland China. (Pamphlet, offerings for 1968, Alex McKenzie)

SPECTRUM, 2ND-COPY PRICE to IEEE members has been made \$3 a year on subscription, a new offering. Additional single-copy price to members remains \$1.

Per Bylaw 501.7, a member's subscription for a second copy, entered now, entitles him to 6 issues, July-December, for \$1.50. "One at the office, one at home," mailed as directed. (Orders, Doris McGuire)

SHORT COURSES in electrical-electronic advances, being offered currently at universities, etc., will be listed in July Spectrum, as a service of the Educational Activities Board (EAB). Listed: courses by area of interest, dates (mid '68), locations, fees, persons to ask for details. (Inquiries, Jack Kinn)

TUTORIAL COURSES FOR FEE. Registration for fee-payable tutorial courses at the March Convention exceeded 400. EAB has concluded that tutorial sessions have great value, and that activity of this type should be continued at the IEEE Convention.

SLIDE-TAPE series, produced as a by-product of the Convention tutorial courses, are being reviewed and evaluated by EAB for further use. Sections and possibly Branches will be apprised shortly of the availability of the video material.

LIFE MEMBERS. A computer readout of 171 pages may be obtained, alphabetically listing 4,094 Life Members, addresses, grades. 22 x 33 cm (8-1/2" x 13"). (Copy, John Callahan)

## REGIONAL NEWS

REGIONAL TREASURIES will hereafter benefit annually by allocation to them of an amount of 5 cents per member, by BofD action in March. Regions have only modest expenses, but heretofore some have had to look to their constituent Sections for aid.

MULTI-LINGUAL APPLICATION FORMS (E. E. Apr. p. 3). Use has been extended by BofD to Region 7 (Canada).

## SECTION NEWS

CHANGE OF COMMAND. Most Sections at midyear are involved in organization changes. While July is the month of take-over, June is the busy time of preparation for a smooth transition—like the synchronization of alternators before the load is switched.

Early this month incoming and carry-over officers and committee chairmen should finalize plans for September resumptions. As last resort, make definite dates for preparations both sides of Labor Day (Sept. 2), when members on vacation will be hard to reach, and committee quorums difficult to come by.

ORGANIZATION ROSTER September 1968, coming out in September, will reflect mid-year changes in Section officers, Section committees' officers and members, and Group Chapter personnel. Prompt reporting of changes and return of early May questionnaires are essential to the appearance of this useful Roster on time. (Reports, care Emily Sirjane)

NEW SECTION IN SPAIN. We proudly welcome officers and members of IEEE's Spain Section, established by ExecCom action April 16.

HOLDING GRADUATING STUDENTS IN IEEE. June marks transitions, Student to Member, Student Associate to Associate, as the boys leave college each graduate has been asked for his future mail address.

"Combing for neophytes" the local industrial and government entities employing

## SPEAKERS WHO'S WHO IN RELIABILITY

February 1, 1968

Joint Committee

of the

Institute of Electrical and Electronics Engineers  
Professional Group for Reliability

and the

American Society for Quality Control  
Electronics Division

and the

American Society for Quality Control  
Reliability Division

(formerly the Reliability Engineering Technical Committee)

This is the sixth issue of the Speakers Who's Who in Reliability. It has been updated and improved since the last issue two years ago. There are many changes in the list. In developing the list of names, we have listed only those individuals who have demonstrated their ability to speak by appearing at regional, district, or national conclave. They were sent applications for listing. If we did not receive the material, the name does not appear. We apologize in advance for any unintentional errors, omissions or inclusions.

Copies of this list are distributed to officers of ASQC and IEEE, both local and national, and other affiliated groups for use in society business only. The list consists of:

- Page 2 - Code list for this issue.
- 3 - Recommendations on how to use listings.
- 4 - Geographical area sort for each industry market area.
- 6 - Topic area sort for each industry market area.
- 12 - Specialty topics.
- 14 - Alphabetical and numerical listing of all speakers.

For further information and/or assistance regarding speakers in these or related areas, please call any of the members of the Joint Committee.

## NOTE-INCOMING 1968-69 CHAIRMAN:

James H. King, Jr.  
Joint Speakers Committee  
% Westinghouse Electric Corp.  
P.O. Box 746, M.S. 525  
Baltimore, Maryland, 21203  
301-765-3521

*Robert L. Williams*  
Robert L. Williams, Chairman  
Joint Speakers Committee  
% Westinghouse Electric Corp.  
P.O. Box 746, M.S. 416  
Baltimore, Maryland 21203  
301-765-2156



SPEAKERS WHO'S WHO IN RELIABILITY

CODE LIST FOR ISSUE 6

EMERGENCY

The speaker is willing to speak  
with less than 5 days notice.

Y        Yes  
Blank - No

TRAVEL LIMIT

100     - Less than 100 miles  
500     - Less than 500 miles  
Blank   - No Limit

EXPENSES REQUIRED

Blank - None  
A       - All  
D       - Depends

HONORARIUM

Blank - No  
Y       - Yes  
D       - Depends  
\$       - Where Listed

AUDIENCE SIZE

25, 50 or 100  
This is the minimum size group  
the speaker will consider  
addressing. If minimum is 10,  
this column is blank.

PAPERS PRESENTED

Number of papers presented since  
January 1965 at local or national  
meetings.

Additional speakers on topics usually covered in Quality Control activities, other  
than Reliability, are noted on the ASQC list available via Mr. Ray E. Feldcamp,  
G.T. Schjeldahl Co., North Highway 3, Northfield, Minnesota 55057, Tel. 507-645-  
5633.

PUBLICATIONS

The listee has published more or  
less than 5 papers as noted.

Y       - Yes  
Blank - No

INDUSTRY MARKET

G - Government  
I - Industrial  
C - Consumer  
P - Consulting  
T - Teaching

TOPIC AREAS

a - Management  
b - Data Collection  
c - Human Factors  
d - Testing/Measuring  
e - Systems Engineering  
f - Education/Training/Motivation  
g - Cost & Value Aspects  
h - Maintainability  
i - Design/Design Review  
j - Components  
k - Theory  
l - Quality  
m - Environments  
n - Logistics  
o - Safety  
p - Procurement & Specifications  
q - Predicting & Estimating  
r - System Effectiveness  
s - Physics of Failure  
t - Integrated Support  
u - Other



RECOMMENDATIONS ON THE USE OF  
SPEAKERS WHO'S WHO IN RELIABILITY LIST

1. Topic known, speaker unknown, evening meeting requirement.

Look under Topic headings and under Geographical group where meeting will be held. Select Speaker Number appearing in both. Consider whether a speaker experienced in Governments, Industrial or Consumer products, or a Teacher or Consultant is desired. The lists are sorted similarly. Look in Speaker Numerical Listing for name, address, etc., and contact him or her.

2. Topic known, speaker unknown, all-day conference, symposia, etc., where a large group will be in attendance.

Use (1) above and select speakers from adjoining geographical areas first, then branch out beyond.

Program Chairman should consider justifying time and expense of speakers by offering audience sizes sufficient to lure speaker.

3. Topic unknown in either of the above type meetings.

Use geographical listings and select speakers convenient to meeting location. Make up topic requirements for series of meetings or conference based on speaker availability, but have a planned sequential program plan. Haphazard meeting topics will not normally draw attendance at all meetings. Consider also whether speakers who are experienced in Government, Industrial or Consumer products, or Consultants or Teachers, are most desirable to the prospective audience.

4. Where speaker desired is known.

Use numerical speaker list for pertinent data.

5. Where you need help or further information on speaker.

The Committee has biographies which they can refer to and give advice by telephone. No attempt will be made to contact you unless you indicate that help is desired. In some cases where a number of groups indicated their desire for a particular speaker, a tour may be arranged or a joint meeting may be feasible.

6. Let us know if any speaker fails to show up, performs poorly, or performs exceedingly well. If a speaker is not listed and he should be, let us know. Feedback is the stimuli of corrective action.

7. The numbers shown in the Geographical and Topic Area sorts refer to the serial number assigned to each speaker.

SPEAKERS WHO'S WHO IN RELIABILITY

GEOGRAPHICAL AREA SORT FOR ISSUE 6

Note: Asterisk indicates the speaker is available for emergency service.

AREA 1: Washington, Oregon, California, Arizona, Nevada, Utah, Idaho

Government				Industrial		Consumer	Consulting	Teaching
*001	*051	*081	*137	*003	*120	*142	*003	*003
*003	063	093	139	010	*126		*097	038
*008	*066	098	140	*028	*130		*114	*066
010	*067	113	*142	037	*136		*120	*083
031	*068	*116	*150	038	*142		*134	*099
*032	072	*117	*155	*047	*162			
*041	*076	118	*156	055				
*044	*077	*126	*164	057				
*047	*079	*134	*177	*066				

AREA 2: Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, Pennsylvania, New Jersey, Delaware, Maryland, Washington, D.C.

Government				Industrial		Consumer	Consulting	Teaching
002	*042	*088	132	002	100	*023	*050	034
007	*043	*091	135	*012	*102	027	069	*052
*009	*045	094	*138	*022	*110	*062	*074	069
015	*046	101	*143	*023	*133	*074	*084	*074
018	*048	*102	*148	027	*143	*092	*086	082
*020	049	103	*151	*033	*152	107	*091	*095
025	052	*110	*153	058	*159	*119	112	*143
*026	*053	112	154	*061	*161	*163	*128	*144
027	058	*115	*158	*062	*163		*144	*146
029	059	122	*159	*064	165		*146	*175
*030	*071	*123	*160	*070	*175		*174	
*035	*074	*128	*163	*071			*175	
*036	*078	*129	*167	*087				
040	*086	*131		*095				

AREA 3: Louisiana, Arkansas, West Virginia, Virginia, North Carolina, South Carolina, Georgia, Alabama, Florida, Tennessee, Kentucky, Mississippi

Government				Industrial		Consumer	Consulting	Teaching
*013	*024	104	*166	080	109		*039	*168
*016	075	*108	*168	*085	*111			
021	*096	*121						



SPEAKERS WHO'S WHO IN RELIABILITY

GEOGRAPHICAL AREA SORT FOR ISSUE 6

Note: Asterisk indicates the speaker is available for emergency service.

AREA 4: Illinois, Michigan, Wisconsin, Missouri, Iowa, Minnesota, Indiana, Ohio

<u>Government</u>		<u>Industrial</u>		<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
*017	*145	*004	*127	011	005	*124
*073	*149	014	141	017	*173	*145
*127	*172	017	170	*157		
141		106	*172			

AREA 5: Texas, New Mexico, Oklahoma, Kansas, Colorado, Wyoming, Montana  
North Dakota, South Dakota, Nebraska

<u>Government</u>		<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
060	*176		105	*019	
*090				056	
105					
147					
171					

AREA 6: Canada, Alaska, Hawaii

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
125		*054		

AREA 7: Foreign

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
006	*089	169		065
169	169			

SPEAKERS WHO'S WHO IN RELIABILITY

TOPIC AREA SORT FOR ISSUE 6

a. Management

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>		<u>Consulting</u>		<u>Teaching</u>	
002	045	086	132	176	002	080	011	005		053	
006	046	088	134	177	004	087	017	019		066	
007	047	090	139		010	089	027	069		069	
010	051	093	141		014	100	062	086		168	
013	053	094	142		017	102	092	097		175	
015	058	096	149		022	106	107	128			
017	066	101	150		027	110	119	134			
024	067	102	151		028	126	142	173			
025	072	110	153		033	127	157	175			
026	073	113	154		047	141	169				
027	075	115	155		058	142					
035	076	116	164		061	161					
036	078	126	166		062	169					
042	079	127	168		064	175					
044	081	128	169		066						

b. Data Collection

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
007	058	102	147	014	102	054	074	074
008	060	108	153	037	169	074	086	144
030	074	125	155	047		107	097	145
036	078	128	158	055		169	128	
040	086	134	164	058			134	
045	090	137	169	061			144	
047	094	145		064			173	

c. Human Factors

<u>Government</u>				<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
044				004	011	074	074
068				071	074	173	
071				102			
074				110			
102				117			
110							
-							



SPEAKERS WHO'S WHO IN RELIABILITY

TOPIC AREA SORT FOR ISSUE 6

d. Testing/Measuring

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>		<u>Consulting</u>		<u>Teaching</u>	
006	049	103	149	010	152	017	050	066			
010	066	108	150	014	163	054	056	074			
017	074	116	151	017	172	074	069				
020	076	125	153	022		119	074				
024	077	132	158	028		163	091				
029	088	135	163	055							
035	091	137	164	066							
044	094	141	172	087							
046	098		177	141							

e. Systems Engineering

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>		<u>Consulting</u>		<u>Teaching</u>	
002	035	077	132 177	002	087			003		003	
003	036	079	137	003	110			019		034	
008	044	086	139	010	111			069		053	
009	045	093	143	022	143			084		069	
010	051	096	149	028	175			086		143	
013	053	110	155	033				097		168	
018	058	017	158	058				128		175	
024	067	125	168	070				174			
031	071	128	174	071				175			

f. Education/Training/Motivation

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>		<u>Consulting</u>		<u>Teaching</u>	
009	090	143		010	126	011	005 175	005	175	034 144	
010	093	147		014	130	157		019		066 146	
013	094	154		033	141	169		056		069 175	
059	116	155		061	143			069		083	
066	118	166		064	169			097		099	
071	126	169		066	175			144		124	
079	141			071				146		143	

SPEAKERS WHO'S WHO IN RELIABILITY

TOPIC AREA SORT FOR ISSUE 6

g. Cost & Value Aspects

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>		<u>Consulting</u>		<u>Teaching</u>	
001	044	076	132	004	106	023		005		168	
010	045	088	147	010	109	054		019			
013	046	090	153	023	110	169		084			
025	047	096	155	047	169			112			
035	058	108	156	058							
036	063	110	168	061							
040	067	112	169	064							
042	072	115		080							

n. Maintainability

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>		<u>Consulting</u>		<u>Teaching</u>	
003	044	077	132	003	163	074		003		003	
009	045	103	135	022		163		074		053	
029	053	110	147	033				097		074	
031	058	122	155	058				128		146	
036	071	125	163	071				146			
040	074	128	167	110				173			

i. Design/Design Review

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>		<u>Consulting</u>		<u>Teaching</u>	
002	090	125	151	002	100	011		134		065	
024	101	134	155	027	102	027		175		143	
027	102	143	156	033	111	054				145	
032	105	145	163	064	143	105				175	
045	115	149	164	085	163	163					
063	122	150	167	089	175						



SPEAKERS WHO'S WHO IN RELIABILITY

TOPIC AREA SORT FOR ISSUE 6

j. Components

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
006 052 102 169	004 102	017	086	145
010 073 123	010 127	023		
017 079 125	017 152	054		
024 081 127	023 161	163		
030 082 129	055 163	169		
032 086 145	061 165			
035 094 163	089 169			
046 101 164	100			

k. Theory

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
001 031 094 155	003 120		003 120	003 145
003 045 104 158	010 133		039 144	034 146
007 058 118 171	012 136		050 146	038
009 082 123 174	033 143		056 174	095
010 086 143	038 162		084	099
013 090 145	058 170		086	143
030 091 149	095		091	144

l. Quality

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
001 047 113 164	004 080	011	005	066
008 060 126 166	010 085	017	019	099
010 063 131 169	017 100	023		
015 066 132 171	022 106	027		
016 069 149 172	023 109	092		
017 072 150 176	027 110	119		
025 076 151	037 111	157		
027 081 154	047 126	163		
032 088 155	061 159	169		
042 090 159	064 163			
043 094 160	066 169			
046 110 163	070 172			

SPEAKERS WHO'S WHO IN RELIABILITY

TOPIC AREA SORT FOR ISSUE 6

m. Environments

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
006 108 176	010 152	054	069	069
010 110	022 169	169		
021 155	087			
067 164	089			
076 169	110			

n. Logistics

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
045 112	033		056	053
053 122	110		112	175
096 139	175		175	
110 147				

o. Safety

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
002 051 115	002		097	066
013 066 117	066		114	083
048 071 150	071			
049 110 158	110			

p. Procurement & Specifications

<u>Government</u>	<u>Industrial</u>	<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
006 073 108 154	004 161	092	019	
015 079 112 164	061		050	
032 088 127	089		112	
042 090 129	100			
067 094 153	127			



SPEAKERS WHO'S WHO IN RELIABILITY

TOPIC AREA SORT FOR ISSUE 6

q. Predicting & Estimating

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
006	045	098	143	033	170	105	050	065
007	046	103	145	047	175		069	069
009	047	104	149	058			084	143
013	058	105	155	110			086	145
018	059	110	158	111			146	146
030	075	116	164	133			175	175
032	078	118	171	136				
040	086	132	176	143				
044	094	140		162				

r. System Effectiveness

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
003	053	094	134	003		105	003	003
007	058	096	137	010		163	019	053
009	067	098	143	014			050	069
010	068	103	147	028			069	143
013	075	104	149	033			084	146
026	077	105	155	047			086	168
030	078	110	158	058			097	175
031	079	118	163	110			128	
040	081	121	168	143			134	
044	086	125	174	162			146	
045	088	128	176	163			174	
047	093	132		175			175	

s. Physics of Failure

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
010	046	077	164	010	109	105	146	146
021	049	101	169	022	152	163		
032	052	105		055	161	169		
035	075	138		057	163			
043	076	163		089	169			

t. Integrated Support

<u>Government</u>				<u>Industrial</u>		<u>Consumer</u>	<u>Consulting</u>	<u>Teaching</u>
013	122			055			175	175
030	147			087				
044	164			175				
045								

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u. Other (or specialty)

Specialty is listed first; the speakers numerical listing follows.

Performance, Life Testing, Sequential Analysis - 003

Engrg. problem solving to determine causes of unreliability - 005

Reliability growth models - 012

Zero Defects Philosophy - 016

Infrared Testing - 020

NASA R & QA Program - 025

General Reliability - 029

Metal Finishing - 041

Materials - 043

Cost-Effectiveness Analysis - 044

Nondestructive Test Development & Standardization - 049

Statistical analysis of electronic circuits to predict degradation failures - 065

MIL-STD-790B & MIL-STD-690 and Established Reliability specifications - 073

Vibration Testing - 076

Naval Aviation Safety Training - 083

Thermal Design - 087

Military sampling handbook - 091

Order statistics, weibull distribution, Monte Carlo studies, design of experiments - 095

Microelectronics - 101

Computer simulations and reliability computer programs - 104

Theory & Application of Mechanical Engrg. Reliability in Electronic Companies - 105

Air Quality Management - 108



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## u. Other (or specialty)

Pre-launch space vehicle checkout - 121

Quality Assurance Management - 131

Bayes sampling & demonstration tests - 137

Computer aided design, both computer program development and application - 141

Program Plans - 142

Design of Engineering Experiments - 145

Personnel Excellence, zero defects - 151

USA Electronics Command Reliability - 153

Mechanical Reliability - Method of Approach and Application - 156

Quality Cost and Error Reports - 159

Integrated Circuit Quality - 161

Infrared Techniques and Systems for Reliability and Quality of modern hardware and electronics - 163

Computer Programming Support in Design and Analysis - 167

Weibull Distribution MIL-STD 105D - 170

Sterilization Effects on Reliability - 176

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001	B. L. Amstadter Aerojet-General 1100 W. Hollyvale St. Azusa, Calif., 91703	213 334-6211	Y		D		25	3	Y	G	g k l
002	Harry E. Arnzen Grumman Aircraft Bethpage, L. I., N.Y. 11714	516 575-7934			D		50	3	Y	G I	a e i o u
003	Dr. Leo A. Aroian TRW Sys., 1 Space Park Redondo Beach, Calif. 90278	213 679-8711 63357	Y		A	\$100	25	20	Y	G I P T	e h k r u
004	James E. Atkinson Amphenol Corp. 1830 S. 54th. Avenue Chicago, Ill., 60650	312 242-1000 486	Y				25	4	Y	I	a c g j l p
005	Harmon S. Bayer Bayer & McElrath, Inc. 1154 Book Building Detroit, Mich. 48226	313 965-3795			A		50	5	Y	P	a f g l
006	Olle Bjorklund Mil. Electronics Lab. FOA 3 Stockholm 80, Sweden	08 631500					25	6	Y	G	a d j m p q
007	Dr. Austin J. Bonis Bell Aerosystems P.O. Box 1 Buffalo, N.Y. 14240	716 692-2100					100	3	Y	G	a b k q r
008	Clarence E. Booth, Jr. Litton Ind., G & Cont. 5500 Canoga Ave. Woodland Hills, Cal. 91361	213 887-3404	Y		A			1		G	b e l
009	Irving Bosinoff Mitre Corp. P.O. Box 208 Bedford, Mass. 01730	617 271-3824	Y				25	4	Y	G	e f h k q r
010	Richard H. Brashean, Jr. Sperry Rand Corp. 322 North 21 West St. Salt Lake, Utah 84116	801 328-8066			D		100	2	Y	G I	a d e f g j k l m r s
011	Carlton Braun Motorola, Inc. 1400 N. 30th. Street Quincy, Ill., 62301	217 222-9160 266			D			6	Y	C	a c f i l
012	Dr. Jack E. Bresenham IBM-WTC, Bldg. 99-4 112 E. Post Road White Plains, N.Y. 10601	914 949-1900 4767	Y				25	1		I	u
013	Peter B. Brigham Martin Marietta Corp. P.O. Box 5837, MP 151 Orlando, Fla. 32805	305 855-6100 3291	Y				50	1		G	a e f g k o q r t
014	James L. Brown National Cash Register Main & K Streets Dayton, Ohio, 45409	513 449-2487			D		50	3		I	a b d e r
015	Charles J. Brzezinski Off. of Ass't. Sec. Def. Pentagon Washington, D.C.	202 694-4918			A		50		Y	G	a l p



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016	A. J. Canning Martin Marietta Corp. Orlando, Fla. 32805	305 855-6100 233/234	Y				25	2		G	l
017	W. P. Carrier Mallory Capacitor Co. 3029 E. Washington Indianapolis, Ind.	317 636-5353 672		500			50	24		G I C	a d j l
018	Eugene R. Carrubba Avco Corp. - S.S.D. Lowell Industrial Park Lowell, Mass. 01851	617 452-8961			D			2		G	o q
019	C. L. Carter, Jr. C. L. Carter, Jr. & Ass. 401 Braniff Building Dallas, Texas 75235	214 352-8019 8851	Y		D	D	25	12	Y	P	a e f g l p r
020	W. Gordon Cawood Raytheon Co. 1415 Boston Prov. Tpk. Norwood, Mass. 02062	617 762-6700 389	Y		D		25	1		G	d
021	D. M. Cawthon Martin Marietta Corp. P.O. Box 5837 Orlando, Fla. 32805	350 855-6100 2326			D		50	3	Y	G	m s
022	David B. Christian Xerox Corporation 800 Phillips Road Webster, N.Y., 14580	716 872-2000 22447	Y				25	4	Y	I	a d e h l m s
023	William Churchill General Electric Bldg 7, Electronics Park Syracuse, N.Y. 13201	315 456-2767	Y				0			I C	g j l
024	Charles Cicchetti IBM Corporation 1615 N. Atlantic Ave. Cocoa Beach, Fla 32931	305 784-9681	Y	D			50	1	Y	G	a d e i j
025	Dr. John E. Condon NASA 400 Maryland Ave. S.W. Washington, D.C. 20546	202 963-7281					100	14	Y	G	a g l u
026	Anthony Coppola USAF Rome Air Dev. Center Rome, N.Y. 13440	315 330-4148	Y					3	Y	G	a r
027	T. A. Daly Westinghouse Elec. Corp. R & D Center Pittsburgh, Pa. 15235	412 256-7285					50	2		G I C	a i l
028	Arthur A. Daugh, Jr. Hughes Aircraft Co. Bldg. 366, MS 480A El Segundo, Calif.	213 648-4002	Y		D			3	Y	I	a d e r
029	John E. Deveau Rome Air Dev. Center Griffiss AFB Rome, N.Y., 13440	315 330-2843			D			1		G	d h u
030	Sidney Damskey General Electric Co. 3198 Chestnut St. Phila., Pa. 19101	215 823-4547 823-4557	Y					1		G	b j k o q r t
031	Dr. Narsingh Deo Jet Propulsion Lab. 4800 Oak Grove Drive Pasadena, Cal. 91103	213 354-4126						4		G	e h k r

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032	William W. DeVille Philco Ford Corp. 3939 Fabian Way Palo Alto, Cal. 94303	415 326-4350 6133	Y				25	2		G	i j l p q s
033	Leonard R. Doyon Raytheon Company Wayland Laboratory Wayland, Mass. 01778	617 358-2721 363	Y		D	D	50	7	Y	I	a e f h i k n q r
034	Alvin W. Drake Mass. Inst. of Tech. 77 Mass. Ave. Cambridge, Mass. 02139	617 864-6900 3603			A		25	4	Y	T	e f k
035	George H. Ebel Conrac Corp. Sherwood Lane Fairfield, N.J.	201 226-7777 261	Y		D		50	2	Y	G	a d e g j s
036	Julian Edelman Sylvania Electronics 77 A Street Brookline, Mass. 02151	617 444-3940 581	Y		D			3	Y	G	a b e g h
037	Fred Ennerson Hughes Aircraft Co. P.O. Box 90919 Los Angeles, Cal 90009	213 648-3243					25	8	Y	I	b l
038	Dr. James D. Esary Boeing Scientific Res. P.O. Box 3981 Seattle, Wash., 98124	206 655-0909			D		25	4	Y	I T	k
039	Dr. Ralph A. Evans Research Triangle Inst. Research Triangle Park North Carolina 27709	919 549-8161 389	Y		A		25	4		P	k
040	Thomas L. Fagan General Electric Co. Box 8555 Phila., Pa. 19101	215 962-3491			D			4	Y	G	b g h q r
041	Marjorie E. Farmer Autonetics, N. Amer. 3370 Miraloma Ave. Anaheim, Cal. 92803	714 772-8111	Y		D			1		G	u
042	David L. Field Sandia Corporation 210 James Street Fairfield, Conn. 06430	203 259-4606	Y		D			3	Y	G	a g l p
043	Dr. Henry E. Frankel Goddard Space Flight Glen Dale Road Greenbelt, Md. 20771	301 982-6882 982-6883	Y				25	15	Y	G	l s u
044	Seymour L. Friedman Hycon Company 700 Royal Oaks Drive Monrovia, Cal. 91016	213 359-8216 308, 307	Y		D		25	3	Y	G	a c d e g h q r t u
045	Paul J. Giordano Sperry Rand Corp. Great Neck, N.Y.	516 938-9300 652	Y					10	Y	G	a b e g h i k n q r t
046	H. T. Go Fairchild Hiller Corp. Fairchild Drive Germantown, Md. 20767	301 948-9600	Y		A		25	12	Y	G	a d g j l q s



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047	Allan S. Golant Electronic Specialty 4561 W. Colo. Blvd. Los Angeles, Cal. 90039	213 246-6767 659 or 319	Y		D		25	2		G I	a b g i q r
048	Bill Gold NASA HQ, Code MY 600 Independence Ave. Wash., D.C. 20546	202 962-0515	Y		D		25	6	Y	G o	
049	S. Goldspiel US Naval Appl. Sc. Lab. Flushing & Wash. Ave. Brooklyn, N.Y., 11251	212 625-4500					100	7	Y	G d o s	
050	Paul Gottfried Booz Allen Appl. Res Inc 4733 Bethesda Ave. Bethesda, Md. 20014	301 656-2200 572	Y		D		25	5	Y	P d k p q r	
051	John W. Griswold The Boeing Company P.O. Box 3868 Seattle, Wash. 98188	206 773-3755	Y		D	D	25	2	Y	G a e o	
052	Edward B. Hakim U.S. Army Elec. Comm. Fort Monmouth New Jersey, 07703	201 535-2185				\$50		3	Y	G j s	
053	Donald J. Harrah Raytheon Company Wayland Laboratory Wayland, Mass. 01778	617 358-2721 2176	Y		D		25	2		G T a e h n r	
054	A. P. Harris Northern Electric Co. P.O. Box 3511, St. C Ottawa, Ont. Canada	613 828-2761 396	Y	500			25		Y	C b d g i j m	
055	William P. Hart ITT Cannon Elect. Co. 3208 Humboldt Street Los Angeles, Cal. 90031	213 225-1251 774			D		50	3		I b d j s t	
056	H. O. Hartley Texas A & M Univ. College Station, Texas 77843	846-3702		500	D	\$100	100	20	Y	P d f k n	
057	R. E. Herfert Northrop Corp. 3901 W. Broadway Hawthorne, Cal. 90250	675-4611 2518			D		25	10	Y	I s	
058	Avery H. Hevesn Avco Corp. 201 Lowell Street Wilmington, Mass. 01887	617 658-8911 2387		100	D		25	3	Y	G I a b e g h k q r	
059	Catherine D. Hock NASA 600 Ind. Ave., S.W. Wash., D.C. 20546	202 963-4331					50	7	Y	G f q	
060	James R. Holpp Sandia Corporation Sandia Base Albuquerque, N.M. 87115	505 264-7354					25	4		G b l	
061	H. D. Hulme Westinghouse Elec. Corp P.O. Box 284 Elmira, N.Y. 14902	607 739-7951 264	Y				25	4	Y	I a b f g j l p	
062	J. Vernon Hunt Westinghouse Lamp Div. Bloomfield, N.J. 07003	201 465-3236	Y	100			2			I C a	

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063	James A. E. Hyams Servonic Instruments 1644 Whittier Costa Mesa, Cal. 92627	714 642-2400 48			D			20	Y	G	g i l
064	Richard M. Jacobs Westinghouse Elev. Div P.O. Box 483 Jersey City, N.J. 07304	201 333-1221 350	Y				50	7	Y	I	a b f g i l
065	Finn Jensen Elect. Lab., Bldg. 344 Tech. Univ. of Denmark Lyngby, Denmark	(01) 881566		500	D		25	1		T	i q u
066	Bethel R. Johnson (Lockheed M & S Co.) (Home) 646 Phil Ct. San Jose, Cal. 95129	408 742-2509 257-3323	Y		D		25	6	Y	G I T	a d f l o
067	Melbourne D. Johnson Santa Barbara Res. Ctr. 75 Coromar Drive Goleta, Cal. 93017	805 968-3511 355	Y		D		25		Y	G	a e g l m p r
068	Dr. Daniel B. Jones MSSD, Douglas Aircraft 3000 Ocean Park Blvd. Santa Monica, Cal. 90406	213 391-0311 6369	Y		D		25	3	Y	G	c r
069	Harold C. Jones Univ. of Maryland EE Dept. College Park, Md.	301 454-2443			D		25	3	Y	P T	a d e f m q r
070	Robert R. Jones Sperry Rand Corp. P.O. Box 8100 Phila, Pa. 19101	215 646-9000 3580	Y	500			25	4		I	e l
071	Dr. Arthur Kahn Westinghouse Aerospace P.O. Box 746 Balto., Md. 21203	301 765-3014	Y	500	D		25		Y	G I	c e f h o
072	Howard R. Kahn Sylvania Electronic 333 Encinal Street Santa Cruz, Cal. 95060	408 426-3000					25	3	Y	G	a g l
073	Donald L. Kear Def. Elect. Supply Ctr. Dayton, Ohio, 45401	513 252-6551 27106/25241	Y		A		25	2		G	a j p
074	Dr. James J. Keenan Dunlap & Assoc. Inc. 1 Parkland Drive Darien, Conn. 06820	203 655-3971	Y		A	\$250	25	6	Y	G C P T	b c d h
075	E. W. Kimball Martin Marietta Sand Lake Road Orlando, Fla. 32805	305 855-6100 3200					25	7	Y	G	a q r s
076	William H. Kirk General Dynamics 5001 Kearny Villa Rd. San Diego, Cal. 92119	714 277-8900 1522	Y		D		25	3		G	a d g l m s
077	R. A. Kirkman TRW Systems, Bldg. 60T One Space Park Redondo Beach, Cal. 90278	213 535-2393	Y				25	3	Y	G	d e h r s
078	Ralph E. Kuehn IBM ESC Owego, N.Y., 13827	607 687-2121 2176	Y	500			25	4	Y	G	a b q r



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079	Walter R. Kuzmin Hughes Aircraft P.O. Box 90919 Los Angeles, Cal. 90009	213 648-2932	Y		D	\$ 50	10	7	Y	G	a e f j p r
080	Harold J. Ladue Sonoco Products Co. North 2nd. Street Hartsville, S.C. 29550	803 332-3511						3	Y	I	a g l
081	E. Jack Lancaster Lockheed Miss. & Space Box 504 Sunnyvale, Cal. 94088	408 742-9238	Y				50	6	Y	G	a j l r
082	Dr. Michael J. Lawrence Corning Glass Works Corning, N.Y. 14830	607 962-4444 7086			D		25	2		T	j k
083	Donald M. Layton Aviation Safety Prog. Naval Postgraduate School Monterey, Cal. 93940	408 646-2581	Y		D			2	Y	T	f o
084	Stephen W. Leibholz Computer Command 33 & Arch Phila, Pa. 19104	215 387-1500	Y				25	4	Y	P	e g k q r
085	Richard M. Leippe Westinghouse Meter Div U.S. #1, North Raleigh, N.C. 27603	919 834-5271 224	Y	500			25	2		I	i l
086	John R. Lennon Consultec, Inc. 1725 K N.W. Wash., D.C. 20006	202 293-1280 41	Y		D		25	4	Y	G P	a b e j k q r
087	Alexander London GE - RSD 3198 Chestnut St. Phila, Pa. 19101	215 823-4059	Y	500	D	D		12	Y	I	a d e m t u
088	S. J. Lorber US Army Mat'l. Command Rm. 2441, Bldg. T-7 Wash., D.C. 20315	202 697-7907	Y				25	25	Y	G	a d g l p r
089	R. T. Lovelock Belling & Lee Ltd. Great Cambridge Rd. Enfield, England	01 363-5393	Y		D		100	4	Y	I	a i j m p s
090	B. W. Marguglio LTV Aerospace Corp. P.O. Box 5907 Dallas, Tex. 75222	214 262-3211 3836	Y					4	Y	G	a b f g i k l p
091	Cyrus A. Martin US Army Mobility Ept. 4519 Dolphin Lane Alexandria, Va. 22309	703 780-1100 45721	Y		D			1	Y	G P	d k u
092	Andrew J. May The Singer Co. 321 First Street Elizabeth, N.J. 07207	201 352-5200 270	Y				25	2		C	a l p
093	James L. Maybell McDonnell Douglas Corp 5782 Raphael Drive Huntington Beach, Cal. 92647	213 391-0311 314			D		50	4	Y	G	a e f r
094	Naomi J. McAfee Westinghouse Aerospace P.O. Box 746 Balto.. Md. 21203	301 765-3625					25	3	Y	G	a b d f j k l p q r

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095	John I. McCool SKF Industries, Inc. 1100 First Avenue King of Prussia, Pa. 19406	215 265-1900 333	Y	500	D		25	1	Y	I T	k u
096	Charles McCracken Martin-Marietta Corp. Sand Lake Road Orlando, Fla. 32805	305 855-6100 2341	Y		A			1		G	a e g n r
097	J. Frederick Medford Walter V. Sterling, Inc. 135 South Spring St. Claremont, Calif.	714 624-8046	Y	500	D		25	5	Y	P	a b e f h o r
098	R. C. Meyer Thiokol Chemical Corp. Box 524 Brigham City, Utah 84302	801 863-3511 32458					100	2		G	d q r
099	Dr. O. B. Moan Arizona State Univ. Tempe, Arizona, 85281	602 961-3463	Y		D			4	Y	T	f k l
100	Meril R. Monashkin Burndy Corporation Conn. & Richards Ave. Norwalk, Conn. 06852	203 838-4444 413		500	D		25	2	Y	I	a i j l p u
101	W. D. Moyers Lockheed Electronics Rt. 22 Plainfield, N.J. 07060	201 757-1600 610					25	10	Y	G	a i j s u
102	August B. Mandel Sonotone Corporation Saw Mill River Road Elmsford, N.Y. 10523	914 592-9600 220	Y		D		50	4	Y	G I	a b c i j
103	Joseph J. Naresky RADC (EME) Griffiss AF Base New York, 13440	315 330-2204						2	Y	G	d h q r
104	A. Carl Nelson, Jr. Res. Triangle Inst. P.O. Box 12194 Res. Tri. Park, N.C. 27701	919 549-8161 456		500	D		25	---		G	k q r u
105	Lucas Nenoff Collins Radio Co. 1200 N. Alma Road Richardson, Tex. 75080	214 235-9511 387						2		G C	i q r s u
106	R. B. Nickerson Gates Radio Company 123 Hampshire Street Quincy, Ill. 62301	217 222-8202 218			D			8	Y	I	a g l
107	Warren E. Norquist Polaroid Corporation 1265 Main Street Waltham, Mass. 02154	617 891-7000 7303			D		25	5		C	a b
108	Frank G. Norris City of Steubenville 308 Market Street Steubenville, O. 43952	614 282-4561	Y		D			3	Y	G	b d g m p
109	Michael J. O'Callaghan 3M Centre Bldg. 209 St. Paul, Minn. 55119	612 733-5573			D		50	4	Y	I	g l s



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Speaker's Number	Name Company Address City - State	Telephone Number -- Area/Ext.	Emergency	Travel Limit	Expenses Required	Honorarium	Audience Size	Papers Presented	Publications	Industry Market	Topic Areas
110	Edward T. Parascos CES Laboratories High Ridge Road Stamford, Conn. 06905	203 327-2000	Y		D			2	G I	a c e g h l m n o q r	
111	Guy G. Parkin 3 M Centre 2501 Hudson Road St. Paul, Minn. 55119	612 733-1110 3-5808	Y				25	2	Y	I	e i l q
112	Perkins C. Pedrick Logistics Mgt. Inst. 4900 Mass. Ave., N.W. Wash., D.C. 20016	202 362-9833 19			D		25	6	Y	G P	g n p
113	Ben W. Pesta General Dynamics P.O. Box 1128, 141-20 San Diego, Cal. 92112	714 277-8900 1010			A		50	4		G	a l
114	George A. Peters Prod. Safety Res. Corp. 15442 Ventura Blvd. Sherman Oaks, Cal. 91403	213 393-1912(H)	Y		D		100	5	Y	P	o
115	Harry E. Peterson, Jr. General Dynamics Eastern Point Road Groton, Conn. 06340	203 446-5794	Y	500	D					G	a g i o
116	Martin Pett Hughes Aircraft 8400 Follbrook Ave. Canoga Park, Cal. 91304	213 883-2400 1853	Y	100			25	2		G	a d f q
117	Dr. E. W. Pickrel Douglas Aircraft 5301 Bolsa Huntington Beach, Cal. 92646	714 897-0311 5107	Y		D			1	Y	G	c e o
118	Dr. Erich Pieruschka Lockheed Miss. & Space P.O. Box 504 Sunnyvale, Cal. 94088	408 743-1272					25	1	Y	G	f k q r
119	Richard F. Powell HH Scott, Inc. 111 Powdermill Road Maynard, Mass. 01754	617 897-8801	Y		D		25	2		C	a d l
120	Frank Proschan The Boeing Co. P.O. Box 3981 Seattle, Wash. 98168	206 655-2921	Y			Y	25	12	Y	C I	k
121	James A. Ralph IBM Cape Canaveral, Fla. 32931	305 784-9669	Y				25	2		G	r
122	Robert E. Redfern IBM Federal Syst. Div. 136 Washington Ave. Endicott, N.Y. 13760	607 755-7836	Y				50	6	Y	G	h i n t
123	Robert I. Reed Arlinc Research Corp. Annapolis Science Ctr. Annapolis, Md. 21401	301 267-8121	Y		D			1	Y	G	j k
124	Virgil Reng Ohio State Univ. Wright Patterson AFB Ohio, 45433	513 257-7441	Y		A	D		3	Y	T	f

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125	H. Reiche Canadian Forces Hqts. DCSE-4 Ottawa, Ont., Canada	9920905						5	Y	G	b d e h i j
126	Raul S. Reis Aerojet-General Corp. P.O. Box 15847 Sacto., Cal. 95813	916 355-6314	Y					8	Y	G I	a f l
127	J. Q. Reynolds Collins Radio Co. 5200 G Ave., N.E. Cedar Rapids, Iowa 52402	319 365-8411 2279	Y		D		100	2		G I	a j p
128	Roland P. Riddick, Jr. The Stanwick Corp. 1401 Wilson Blvd. Arlington, Va. 22209	703 524-6126 260	Y		D		25	1		G C	a b e h r
129	W.R. Rodrigues de Miranda Raytheon 1415 Boston-Prov. Tpk. Norwood, Mass. 02062	617 762-6700 518/588	Y		D		25	1		G	j p
130	Herbert B. Rogers Lockheed Miss. & Space 1111 Lockheed Way Sunnyvale, Cal. 94088	408 742-1515	Y				50	5	Y	I	f
131	Howard A. Rosenberg ALL Div. Cutler-Hammer Comac Road Deer Park, N.Y. 11729	516 595-5830	Y					2	Y	G	l
132	Stanley A. Rosenthal Kollsman Inst. Corp. 575 Underhill Blvd. Syosset, N.Y. 11791	516 921-4300 500	Y				50	7	Y	G	a d e g h l q r
133	David Rubinstein General Electric Co. Court Street, Bldg. 6 Syracuse, N.Y. 13201	315 456-1542	Y		D			1	Y	I	k q
134	Charles W. Russell Aerospace Corp. San Bernardino, Cal. 92402	714 884-9211 1253	Y		D		100	3	Y	G P	a b i r
135	Edward Sarkisian NASA 575 Technology Square Cambridge, Mass. 02139	617 494-2283	Y		D		25	5		G	d h
136	Dr. San C. Saunders Boeing Research Lab. P.O. Box 3981 Seattle, Wash. 98124	206 655-8959	Y		D			3	Y	I	k q
137	R. E. Schafer Hughes Aircraft Co. Fullerton, California 92634	714 871-3232 4865	Y		D			1	Y	G	b d e r
138	Dr. John F. Schenck General Electric Co. EP3-19 Syracuse, N.Y.	315 456-3255	Y					4	Y	G	s
139	Leonard L. Schneider TRW Systems, Inc. 1 Space Park Redondo Beach, Cal.	213 535-1912		100				1	Y	G	a e n



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140	H. J. Schulhof Litton Industries ? (Left Hughes Aircraft, Address Unknown)							3	G	q	
141	Alan Secor Collins Radio Co. Bldg. 120-05 Cedar Rapids, Iowa	319 365-8411 3637					50	4	G I	a d f u	
142	Alvin Seldner Ampex Computer Prod. 22950 Oxnard Street Woodland Hills, Cal.	213 836-5000 386	Y	100				10	Y G I C	a	
143	William H. Sellers Raytheon Company Hartwell Road Bedford, Mass.	617 274-7100 878	Y				25	7	Y G I T	e f i k q r	
144	Dr. H. C. Shan Univ. of Penna. 113 Towne Bldg. Phila., Penna. 19104	215 594-7044	Y				50	5	Y P T	b f k	
145	Narendra Sheth University of Michigan 317 West Engrg. Ann Arbor, Mich. 48104	313 764-8456	Y	100	A	D	50		G T	b i j k q u	
146	Martin L. Shooman Poly. Inst. of Brooklyn 333 Jay Street Brooklyn, N.Y. 11201	212 643-4486	Y		D	Y		5	Y P T	f h k q r s	
147	Jimmie L. Short Collins Radio Company 1200 N. Alma Road Richardson, Tex. 75080	214 235-9511 7743		D				1	G	b f g h n r t	
148	Arthur I. Siegel (Dr.) Appl. Psychological Services 404 E. Lancaster Ave. Wayne, Pa. 19087	688-4874	Y		A	D	25	5	Y g		
149	Thomas A. Simonds Bendix Aerospace 3300 Plymouth Road Ann Arbor, Mich. 48107	313 665-7766 739	Y		D	\$ 20		1	Y G	a d e i k l q r	
150	Robert W. Smiley Lockheed Miss. & Space Box 504 Sunnyvale, Cal. 94088	408 742-7372	Y		D		50	5	Y G	a d i l o	
151	Bruce D. Smith RGA Burlington, Mass.	617 272-4000 3955	Y		D		25	5	Y G	a d i l u	
152	Dr. Robert F. Snowball Burndy Corp. Conn. & Richards Ave. Norwalk, Conn. 06852	203 858-4444 794	Y		D		50	5	Y I	d j m s	
153	John P. Sosdian U.S. Army Electronics Command, AMSEL-RD-DI Ft. Monmouth, N.J. 07703	201 535-1616	Y					2	G	a b d g p	
154	Alexander Sternberg RGA-AED P.O. Box 800 Princeton, N.J. 08540	609 448-3400 2534					50	15	Y G	a f l p	

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155	I. Paul Sternberg Hughes Aircraft Co. Centwell & Teale Sts. Culver City, Cal. 90230	213 391-0711 6626			D			9	Y	G	a b e f g h i k l m q r
156	Richard L. Straley The Boeing Company P.O. Box 3868 Seattle, Wash. 98124	206 773-3806	Y	500	A		25	1		G	g i u
157	Vernon G. Talbott, Jr. Borg-Warner Corp. 625 Southside Dr. Decatur, Ill. 62525	217 428-4641 231	Y	500	D			6		G	a f l
158	Bernard Tiger RCA Building 1-5-3 Camden, N.J. 08102	609 963-8000	Y				25	6	Y	G	b d e k o q r
159	Stanley W. Timblin Westinghouse Box 1797, MS1490 Balto., Md. 21203	301 765-7458	Y		D		25	4		G I	l
160	J. H. Tooley General Electric 3198 Chestnut Street Phila., Pa. 19101	215 823-3762	Y		A			1		G	l
161	Orlin D. Trapp (Ph.D.) Westinghouse Mol. Div. P.O. Box 7377 Elkridge, Md. 21227	301 796-3666	Y					2		I	a j p s
162	Steven S. Tung TRW Systems, Inc. One Space Park Redondo Beach, Cal. 90278	213 679-8711 63914	Y		D			2	Y	I	k q r
163	Dr. Riccardo Vanzetti Raytheon Company Boston Post Road Wayland, Mass. 01778	617 358-2721 2137	Y				100	30	Y	G I C	d h i j l r s u
164	John J. Visser Jet Propulsion Lab. 4800 Oak Grove Dr. Pasadena, Cal. 91740	213 354-5750	Y				25	1		G	a b d i j l m p q s t
165	A. J. Wahl Bell Telephone Lab. 2525 N. Eleventh St. Reading, Pa. 19603	215 929-7586					50	1		I	j
166	Marvin H. Walker, Jr. SPACO, Inc. 3022 University Dr. Huntsville, Ala.	205 536-5541 293	Y	100			25	3	Y	G	a f l g
167	H. M. Wall IBM Corp. 1111 Conn. Ave., N.W. Wash., D.C. 20036	202 333-6700 7394	Y		D		50	5	Y	G	h i u
168	Lee R. Webster Radiation Inc. Palm Bay, Fla. 32901	305 727-5013	Y		D		25	7	Y	G T	a e g r
169	H. van der Weiden N.V. PHILIPS' GLOEILAM- PENFABRIEKEN Q en R ELCOMA EINDHOVEN, HOLLAND	040 60000 22154			D	D	25	10	Y	G I C	a b f g j l m s



Speaker's Number	Name Company Address City - State	Telephone Number --- Area/Ext.	Emergency	Travel Limit	Expenses Required	Honorarium	Audience Size	Papers Presented	Publications	Industry Market	Topic Areas
170	John S. White G.M. Research Labs 12 Mile & Mound Rds. Warren, Mich. 48090	313 539-5000 4661		500	D		25	15	Y	I	k q u
171	John M. Wiesen Sandia Corporation Sandia Base Albuquerque, N.M. 87115	505 264-6246					25	2	Y	G	k l q
172	Myron F. Wilson Collins Radio Company Bldg. 120-05 Cedar Rapids, Iowa 52406	319 365-8411 2762	Y				50	3		G I	d l
173	Robert A. Yereance Battelle Memorial Inst 505 King Ave. Columbus, Ohio, 43201	614 299-3151 2462	Y				25	10	Y	P	a b c h
174	H. I. Zagor RCA 75 Varick Street New York, N.Y., 10013	212 689-7200 RV 344	Y		D			5	Y	G P	e k r
175	Paul H. Zorger Sanders Associates 5009 Dodson Dr. Annandale, Va., 22003	703 256-8004	Y	100	D	D	25	6	Y	I P T	a e f i n q r t
176	Arnold A. Rothstein Martin Marietta P. O. Box 179, Mail 8401 Denver, Colo., 80201	303 794-5211 4429/3547	Y	500	D		50	11	Y	G	a l m q r u
177	Anthony M. Smith 410 Atwater Road Broomall, Penna. 19008	215 962-6822	Y		D		25	2	Y	G	a d e



## POLICY STATEMENT ON ADVERTISING IN IEEE PUBLICATIONS

Technical advertising is one of the major means of disseminating scientific information concerning electrical and electronics engineering and related fields. It does this by presenting for the engineering profession descriptions concerning the availability and capabilities of new or improved equipment, components, instruments and services. The presence of such advertising in a technical publication thus adds significantly to its usefulness and general attractiveness. The acceptance of advertising by journals of the IEEE and its predecessor societies and the use of the resulting income to support publication services and thereby further the dissemination of scientific information has a long tradition dating back more than half a century.

It is, therefore, entirely fitting that the IEEE should permit the inclusion of technical advertisements in those of its publications where it is appropriate, as specified further below, subject to the following requirements and procedures.

The intent of these policies is to insure that the benefits afforded by such advertising are achieved within the bounds of good taste and in a manner consonant with IEEE's scientific and educational objectives. It is the further intent to establish a mechanism for maintaining and monitoring the balance among the sometimes conflicting elements of a vigorous advertising program.

As a matter of policy, advertisers should not be approached to buy advertising in an Institute-wide publication from a feeling of responsibility to support the IEEE.

For the purposes of this policy statement, "advertising" is defined to mean display advertising. This statement is not intended to apply to institutional listings, which are regarded by the IEEE as acknowledgements of contributions supporting a particular publication activity rather than descriptions of products or services.

### I ALL IEEE PUBLICATIONS

#### General Requirements:

1. The advertising should serve the reader of the publication. It should contain substantive technical content or be of informational usefulness to him.
2. The advertising should be appropriate to the publication and to the IEEE. The appearance and usefulness of the publication should not be impaired.
3. Advertising considerations should not be used as a criterion by the Editor or his staff in judging the merits of technical and editorial material for publication.
4. In the case of archival publications, the pagination should be such as to permit separation of advertising copy from bound volumes.



5. Authorization for an IEEE publication to carry advertising will be granted provided, in the judgment of the Executive Committee of the IEEE, there would not result a condition that would cause an overall reduction of publication services to the IEEE membership.

6. The sale of advertising will be handled through the Institute staff for all publications having more than Regional distribution or which would affect the advertising sales of other IEEE publications. Volunteer participation in the sales effort should be fully coordinated with the Institute staff.

## II IEEE SPECTRUM AND PROCEEDINGS OF THE IEEE

Additional Requirements: None

### Procedures:

1. All advertising arrangements will be handled by the Institute staff.
2. The advertising rates will be set by the Institute staff, subject to Executive Committee approval.
3. The net income from advertising will revert to the general treasury of the Institute.
4. The Publications Board is assigned the responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.

## III GROUP TRANSACTIONS, JOURNALS AND NEWSLETTERS

Additional Requirements:

1. The potential net income from the advertising should be a significant fraction of the production cost of the publication which carries it.
2. For Group TRANSACTIONS and JOURNALS, advertising copy accepted should be in units such that editorial filler material is not needed.
3. Advertising will not normally be accepted in "self-covered" publications; e.g., Group Newsletters which do not have separate covers.
4. The acceptance of advertising and Institutional listings in the same publication is permitted.

### Procedures:

1. All advertising arrangements will be handled by the Institute staff. Group participation in the sales effort will be fully coordinated with the Institute staff.

2. The advertising rates will be set by the Institute staff, in consultation with the Group Chairmen concerned, subject to Executive Committee approval.

3. No advertising will be placed in a Group technical publication unless requested by the Group Administrative Committee. If a Group wishes to have advertising in its publication it should, after advising the Technical Activities Board and Publications Board Chairmen, request the General Manager to study the potential benefits and income to be derived from including advertising in the publication. The General Manager will report the results of the study first to the Group, and with its consent, then to the Executive Committee and if the Executive Committee concludes that the above requirements have been met, it may authorize the acceptance of advertising in that publication. Once advertising is published, its sale must be continued in conformity with the above requirements for at least two years and cannot be discontinued without the mutual consent of the Executive Committee and the Group involved. (Normally advertising will be started in the first issue of the calendar year. The General Manager must receive a request to study the potential advertising before July 1 of the year preceding the one in which advertising is to be started.)

4. The net income from advertising in a Group publication will be allocated at the discretion of the Executive Committee upon the recommendation of the Chairmen of the Technical Activities Board and Publications Board. A substantial fraction will be allocated to the Group involved for use in defraying publication costs.

5. The Publications Board is assigned the responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.

## IV SECTION PUBLICATIONS

Additional Requirements:

1. Advertising is permitted in Section publications on the basis that it provides a worthwhile service to readers in a particular geographical area and to advertisers, and that the publication's distribution and method of selling advertising is sufficiently localized so as not normally to interfere with the advertising programs of other Institute publications having more than Sectional distribution. However, Section publications containing advertising may be distributed to the members of more than one Section only with the approval of the other Sections involved and the IEEE Executive Committee.

2. An advertiser is free to buy advertising separately in two or more Section publications. However, two or more Section publications may sell advertising to the same advertiser at combination rates only with the prior approval of the IEEE Executive Committee.

### Procedures:

1. All advertising arrangements will be handled by the Section or its designated agent. Sections may seek advice and help from the Institute staff on advertising matters.



2. The advertising rates will be set by the Section.
3. The net income from advertising will revert to the Section or its publication.
4. The Section Executive Committee is assigned the primary responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.

#### V CONFERENCE PUBLICATIONS

##### Additional Requirements:

1. Conference publications, such as programs, digests and Conference Records, may carry advertising with the prior consent of the Executive Committee of the IEEE if the conference is sponsored solely by the IEEE.

##### Procedures:

1. No advertising should be placed in a conference publication unless authorized by the conference management. If the conference management wishes to have advertising in a conference publication, its request for Executive Committee permission may be made a part of the conference budget approval procedure, that is, the request should be submitted to the General Manager of the IEEE at the time the conference budget is submitted to him for approval. Unless explicitly stated to the contrary, approval of the budget by the Executive Committee will carry with it consent to carry advertising.
2. To enable the IEEE to act as a clearinghouse for advertising information and to provide guidance to other conferences, it is desired that the following information be included with the request:
  - a. The number of copies to be printed and to whom they will be distributed.
  - b. Advertising rates to be charged.
  - c. The method of soliciting advertising.
  - d. In the event that there will be exhibits as a part of the conference, an assurance that there will be no tie-in between advertising rates and rental charges for exhibit booths.
3. All advertising arrangements will be handled by the conference management or its designated agent.
4. The advertising rates will be set by the conference management.
5. The net income from advertising will revert to the treasury of the conference.

6. The conference management is assigned the primary responsibility of monitoring the suitability of the advertising and its adherence to the above requirements.

#### VI OTHER PUBLICATIONS

Institute publications not specifically mentioned in the foregoing may carry advertising only with the consent of the Executive Committee of the IEEE.



these graduates, June-September, is in the immediate and long-term interest of Sections and Chapters, as well as a service to the men entering the profession.

Be aware of these points: 1) automatic upgrading without application and without additional charges for 1968 upon graduation, and with waiver of references; 2) reduced dues in upped grade during '69 (Bylaw 109.1); 3) no billing until November '68; 4) two-payment installment privilege for 1969 (Bylaw 110.1)

FORUM FOR SECTION CHAIRMEN. Each Section will receive invitations for two to attend the Forum at Wescon, Los Angeles, in August. It should particularly interest new Section chairmen.

An innovation will be the staging of a "mock Section Executive Committee meeting" to demonstrate how a well-run Section would operate and handle typical problems. "Reports" will be presented by officers and committee chairmen of this hypothetical Section, to focus attention on Institute policy and on typical activities such as:

What programs might be considered for the year to increase participation in Section activities? . . . How can a Section work more effectively with Student Branches and interest students, or new graduates, in the Section? . . . What program will attract new members and encourage transfers in grade? . . . Will our Section budget be realistic, and how does our Section help finance (or profit from) the technical conference planned for next year?

The persons acting the "members" of this fictitious Section Executive Committee will have had wide experience in Section and Institute affairs. They will serve as a panel to answer questions after their "meeting." Vice President L. C. Holmes and Dr. W. R. Clark are soliciting ideas to incorporate. Write one of them, care Emily Sirjane.

AFFILIATION WITH LOCAL COUNCILS. According to "The Mighty MHO," St. Louis Section had to sever relations with the Engineering Council of St. Louis, because the Council had no Internal Revenue Service (IRS) ruling or determination of tax-exempt status under IRS Sec. 501(c)(3).

IEEE's legal counsel said, however: "Of course, if the Council should in the future obtain a ruling from the IRS granting it tax-exempt status, . . . the Section could resume its affiliation with the Council upon compliance with the procedure set forth in IEEE's Statement of Policy #1-A."

INTERESTING SECTION MEETINGS are of constant concern. E. E. has sent out Speakers Directories, not yet out of date (canary Supplements, 1967 issues). Papers and films used at March Convention and how to get them were mentioned in E. E. Apr., pp. 1, 7-8 and canary Supplement. With this issue is the canary Supplement on Reliability subjects.

Dr. Herold points out that Sections can repeat on a local scale, alone or cooperatively, what his committee did with the 1968 Convention. Papers, panels, sessions—dealing with tutorial, interdisciplinary, "horizon" subjects—are well suited to Section meetings and one- or two-day conferences. Choose your subject. Appoint your session organizer(s). Let him (them) divide the subject, dig up the speakers from your Section or nearby (not forgetting the colleges), reach agreement with speakers on titles and content of papers, appoint presiding moderator(s) capable of preparing an introduction and ad-libbing a summarization and organizing the speakers for a question-and-answer panel, if desired. The idea is to present something attendees can understand and have interest aroused. Leave more highly technical papers for another time.

THREE WAYS OF SAYING IT: 1) Unidentified contributor to Cleveland Section News, Feb. '68: "Next time you see a Group Chapter meeting announced, why not take it in? In addition to learning from the speaker, one can usually parlay his own thoughts into a worthwhile idea he would not otherwise have had." 2) President Herwald, in "Student Journal" for January '68: "At IEEE meetings a member can take in the presentation of technical papers and reports. But he will also be rubbing elbows with his world. The subtle osmosis by which ideas are communicated really does seem to work faster in a meeting hall and



in the corridors afterwood." 3) Anon., c. mid-XX Cent.: "There is nothing like a technical session to produce the highly charged atmosphere in which thoughts spark and crackle—where ideas zigzag about like projectile neutrons, either awaiting capture in another man's mind or bombarding their way to some miracle of mental fission."

### GROUP NEWS

ARE "TRANSACTIONS" WELL BALANCED between 1) scientific and basic research and 2) engineering design and applied research? At BofD in March an opinion was voiced that our publishing posture in some Groups is definitely toward 1), while Group membership is strongly oriented to 2). The subject will be discussed at BofD August 19 at Los Angeles. (Comments invited: Dr. Willenbrock, care Woody Gannett)

GROUP SCOPES DO CHANGE. Cleveland Section News, under heading "Did You Know?" notes that the IEEE Group on Vehicular Technology, once thought of as confined to mobile radio, now has a scope that includes all equipment and systems ordinarily identified with the automotive industry (except public transit): e.g., EMF supply and use, devices, instrumentation, traffic signals and control, emergency and warning systems.

See pink Supplement, E. E. Feb. for latest scopes. As Cleveland says, Section members need reminding that any given Chapter "may have more interest to you than you thought."

RE-SCHEDULING OF "GOOD PAPERS." Restraints purposely put upon the acceptance of highly technical papers at the March Convention automatically releases them to Group advantage for placement at Group conferences.

A minority of Groups regrets the loss of "traditional" International Convention session audiences in New York for specialized papers. These Groups are being encouraged to weigh New York like any other city as locale for a Group-run conference. For some, March dates immediately

before or after the Monday-to-Thursday Convention are becoming attractive. Co-sponsorship with one or another of the unstruck universities in the New York area is another (or complementary) possibility.

AFFILIATES UNDERGO EVOLUTION. The IEEE Group on Medicine and Biology (G-EMB) has special relationships with scientific, laboratory, and clinical disciplines—ties that have posed problems in the Group Affiliate area. (See E. E. Apr., p. 6).

In November '67 BofD approved an IEEE position paper on support of the EMB area and on reorganizing G-EMB. It involved a possible change of name and scope, particulars of which are still being worked out.

However, a significant change can be reported already to have taken place in the membership of G-EMB: it now includes, on an equal Group footing as to rights, not only IEEE members who join and pay a G-EMB fee (continued at \$4), but all other engineers and life scientists who elect to join (at an annual fee of \$14). It will be noted that the \$10 fee-differential heretofore applying to G-EMB Group Affiliates is preserved to cover IEEE expense, but there the tie with the past stops. There are no longer any Group Affiliates in G-EMB. All members of G-EMB (except students) have equal Group membership status.

G-EMB is now preparing a list of societies whose members may join G-EMB with full privileges upon application and payment of fees. The list is expected to include such organizations as American Physiological Society, American Society for Artificial Internal Organs, Aerospace Medical Association, American College of Surgeons, American Institute of Physics, International Federation of Medical Electronics and Biological Engineers, and the Institute of Electrical & Electronics Engineers.

A second projected route for joining G-EMB is upon formal application, including three letters of recommendation one of which must be from a G-EMB member—all to substantiate the applicant's status as a bona fide contributor to the EMB area. Particulars are being worked on.

MANUFACTURING TECHNOLOGY. There is possible need for organization in the

area of the title; scattered papers have already appeared in various Transactions. A TAB task force is investigating practicality of working up some exploratory sessions at Regional conferences this year: NEREM and NEC are possibilities. (Suggestions to Dr. Mulligan, please, via Dick Emberson)

CADAR (Computer Aided Design Analysis & Realizability—see E. E. Feb. p. 4). The CADAR Committee, appointed by Vice President Mulligan as TAB chairman, is eager to enlist the cooperation of Sections as well as Groups, whose members might like to order the CADAR newsletter without charge. CADAR's immediate concern is to increase its newsletter circulation. It solicits field support through the Chapters of the Groups interested, or, in the absence of Chapters, through committees appointed by Section chairmen.

For IEEE non-members, CADAR newsletter is available on subscription, \$5 per year, payable to IEEE. (Orders, Doris McGuire)

"TECHNIQUES FOR BETTER TALKS." Item 87 of the catalog (blue Supplement, E. E. Apr.) has been re-issued. Described in E. E. Dec. p. 4. From one to 10 copies will be sent free. To realize expenses, a price of \$2.50 has been placed on 25 copies, \$5 on 50, \$9 on 100. (Requests, orders: Doris McGuire)

### CONFERENCE NEWS

1969 CONVENTION TECHNICAL PROGRAM will be chaired by Dr. Walter R. Beam, who on May 1 wrote all Group chairmen, inviting Group participation in 1969.

Howard Schumacher, of Dick Emberson's staff, will continue to act as staff liaison on Convention technical matters. Howard will furnish upon request a copy of Dr. Beam's letter; also copies of the final report on the 1968 Convention by Dr. E. W. Herold, and Howard's own statistical report. The Herold report evaluates the several innovations made in 1968 and makes recommendations for 1969. The

Schumacher report reviews participation in the program, attendance counts; session evaluations; quotes opinions, pro and con. These documents are pertinent to persons seriously concerned with large conferences.

COMMITTEE MEETINGS. Scheduled at 1968 Convention were 178 of them, outbidding some technical sessions for the time of 2500 (4%) "key" registrants. As President Herwald mentioned at the banquet, the scheduled "huddles" did not touch, in number, the myriad held—in the aisles, the lobbies, at the cocktail party, in hotel rooms and bars—some purely social but many of them directed to those dialogues dear to engineers, for which they pay their dues and they or their employers pick up the tabs.

As for the committees which spurned advice and scheduled meetings: where else can they meet to better advantage than where their members are?

In his review, Chairman Herold advocates more bookings on Friday of Convention week and on the preceding and the following weekends.

### CHAPTER NEWS

NEW CHAPTERS APPROVED. Since last chronicled (E. E. Feb. p. 8), the following new Group Chapters as described have been established in the Sections shown: Chicago Section: Joint Chapter on Industrial Electronics & Control Instrumentation and Industry & General Applications. . . Columbus Section: Power. . . Connecticut Section: Engineering in Medicine & Biology. . . Fort Worth Section: Aerospace & Electronic Systems. . . Jacksonville Section: Communication Technology. . . Los Angeles Council: Geoscience & Electronics. . . Miami Section: Engineering in Medicine & Biology. . . Middle Tennessee Section: Joint Power and Industry & General Applications. . . Montreal Section: Reliability. . . Syracuse Section: Joint Power and Industry & General Applications. . . Tucson Section: Joint Circuit Theory and Electron Devices.

CHAPTERS AS LUNCHEON CLUBS. Adding to the one reported in E. E. Apr. p. 3,



F.H. Ames, Jr., lately Newsletter Editor of IEEE Group on Engineering Management, says that "two or three" EM Chapters "hold luncheon meetings fairly frequently and report good turnouts." K.C. Cummings, Chairman Twin Cities Section, says in effect that Communication Technology Chapter has held luncheon meetings with "attendance of 20 to 30, . . . considered good turnout. . . meetings successful. . . Best adapted to Chapters having compact membership close to dining place. . . Night meetings better if long driving times involved."

### STUDENT NEWS

SECTION STUDENT BRANCHES. BofD in March approved the following new By-law 407.8 (to be inserted following 407.7 with consequent renumbering):

407.8. The normal organizational unit for the conduct of IEEE Student Branch activities is the Student Branch associated with an educational institution. However, when circumstances do not permit the normal organizational arrangements within the boundary of a Section, the Executive Committee may authorize the formation of a Section Student Branch open for membership to those Student Members attending institutions located within the Section having curricula which would normally qualify for Student Member status, who are not members of an IEEE Student Branch. Such authorization shall be requested in a petition, signed by not fewer than ten such Student Members, endorsed by the Section Executive Committee, and approved by the Regional Director. Upon the establishment of the Section Student Branch, the Regional Director shall appoint a qualified Section Student Branch Advisor. The Section Executive Committee

shall be responsible for the organization and activities of the Section Student Branch, in accordance with the applicable provisions of the Student Branches Constitution. Nothing in this Bylaw is intended to exclude Student Associate Members from membership and participation in the Section Student Branch, except the holding of office.

### STUDENT ASSOCIATE BRANCHES.

E. E. Feb. p. 5 quoted in full revised By-law 407.4, giving criteria for establishing Student Associate Branches, including 1) a petition; 2) recommendation of the Regional Director; 3) accreditation or approval of the curriculum; 4) authorization by ExecCom. ExecCom interprets the 3rd numbered requirement as follows: In Regions 1 through 6 (U.S.), accreditation of the curriculum by the Engineers' Council for Professional Development (ECPD); in Regions 7 through 10, accreditation of the curriculum by a regional body comparable to ECPD if available; or if not available, determination by the IEEE Executive Committee whether the curriculum is satisfactory as a basis for its authorizing establishment of a Student Associate Branch.

### "IEEE STUDENT BRANCH NEWS."

E. E. salutes a new neighbor: a headquarters newsletter, big as E. E., which "builds bridges between Branches"—a nice alliteration describing a fine service to 23,000 "electricals" in 300 colleges, world without end.

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### Supplements:

Canary	-	Speakers Who's Who
Blue	-	Policy on Advertising

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IEEE's "family" of Units includes Groups, Committees, Boards, Councils, Conferences, Regions, Sections, Subsections, Chapters, Branches, and Headquarters. "Electrical Engineering" (E. E.) helps bring them together.

When E. E. refers to staff members, get full name, assignments, etc., from "IEEE Spectrum"; listed monthly on second page after table of contents. Address them: IEEE, 345 East 47 Street, New York, N.Y. 10017. Or phone Area 212 - 752-6800.