Baltimore Section IEEE
Centennial Celebration

1904 - 2004
2004 Baltimore Section IEEE

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Chair
Jeffrey A. Friedhoffer

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Boris Gramatikov

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Membership Development
Virgilio P. Arafiles

Awards and Recognition
Tom Patton

Newsletter
Ronald Aloysius

Audits and Bylaws
Joseph M. Pollitt

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Tina Kohler

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William Dixon

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Thad Welch

ED/SS Chair
David Burnell

EMB Chair
David Sherman

PES Chair
Eric Henlon

GOLD
Wole Akpose
Baltimore Section IEEE
Centennial Celebration

February 28, 2004

6:00 p.m.  Cocktails and Social

7:00 p.m.  Welcome
Recognition of Distinguished Guests
Dr. Jeffrey Friedhoffer
2004 Baltimore Section Chairman

Invocation
Mr. Gordon Gaertner
1991-93 Baltimore Section Chairman

Dinner Served

8:00 p.m.  Delegate Kumar P. Barve
Maryland House of Delegates Majority Leader

8:15 p.m.  100 Years of Electrical Engineering in the
Baltimore Section
Dr. Merrill Skolnik
Fellow IEEE

8:45 p.m.  The Honorable Aris Melissaratos
Secretary, Maryland Department of Business
and Economic Development

9:00 p.m.  Presentation of Centennial Banner
Dr. Moshe Kam
Director and Chair, IEEE Region 2

Close
Distinguished Speakers

Delegate Kumar P. Barve

First elected in 1990, and re-elected three times, Delegate Kumar P. Barve, is the Majority Leader in Maryland's state legislature and was chair of the Science & Technology Sub-Committee of the House Committee on Economic Matters. He is the longest-serving elected official of Indian origin. He represents a district with a population of 110,000 in Montgomery County, Maryland. Mr. Barve is the CFO of Environmental Management Services, a company that cleans up toxic waste sites. He has received the Legislator of the Year Award from the Montgomery County Medical Society three times. He received the Biotechnology Leadership Award from the University of Maryland Biotechnology Institute in 2004. Mr. Barve is a graduate of Georgetown University (BS Accounting 1980).

Dr. Merrill Skolnik

Dr. Skolnik, a native of Baltimore, served as Superintendent of the Radar Division at the Naval Research Laboratory, a Senior Executive Service position, from 1965 to 1996, where he received the Navy Distinguished Civilian Service Award. Before that he was with the Institute for Defense Analyses, the Research Division of Electronic Communications Inc., MIT Lincoln Laboratory, Sylvania Boston Engineering Laboratory, and the Johns Hopkins University Radiation Laboratory.

He is a Fellow of the IEEE, former chairman of the IEEE Radar Systems Panel, former editor of the Proceedings of the IEEE, received the IEEE Harry Diamond Award, the IEEE Centennial Medal, and was the first recipient (in 2000) of the IEEE Dennis J. Picard Medal for Radar Technologies and Applications. Dr. Skolnik is the author of Introduction to Radar Systems and editor of the Radar Handbook, wrote the article on radar for the Encyclopaedia Britannica, and was the editor of Radar Applications. In 1986 he was elected to the National Academy of Engineering.

Dr. Skolnik received his B.E, M.S.E, and Dr. Eng. degrees from the Johns Hopkins University as well as the Distinguished Alumni Award, and was a member of the Johns Hopkins Society of Scholars.

The Honorable Aris Melissaratos

Governor Robert L. Ehrlich, Jr. named Aris Melissaratos to the position of Secretary of the Maryland Department of Business and Economic Development (DBED) in January 2003. As Secretary, Mr. Melissaratos directs the work of DBED in its mission to stimulate and strengthen Maryland’s economy, and promote Maryland as a prime location for tourism, film production and advancement of the arts. His priorities include technology, manufacturing, and minority business development.
Mr. Melissaratos is a former Westinghouse Electronics Systems Executive. For 32 years, he held a variety of positions at Westinghouse, the last of which was Vice President of Science and Technology, and Chief Technology Officer at the corporate headquarters in Pittsburgh. He was the Vice President and General Manager of the Design Engineering and Manufacturing Operations Divisions, with a total of 16,000 employees and $3.2 billion in annual revenues. Mr. Melissaratos is a founding co-chair of the Greater Baltimore Technology Council, former Vice-President of the Maryland Chamber of Commerce and former Chair of the Maryland Manufacturing Association. He is a member of the National Advisory Council of the Whiting School of Engineering at the Johns Hopkins University, the Board of Directors of the Technology Council of Maryland, and the Emerging Technology Centers, and served on the Board of Visitors of the University of Maryland.

Mr. Melissaratos holds a BSEE from the Johns Hopkins University, and MS in Engineering Management from George Washington University. In addition, he has completed the Harvard Business School Program for Management Development (PMD-40) and the course work for a Doctorate (A.B.D.) in International Politics at the Catholic University of America.

**Dr. Moshe Kam**

Dr. Moshe Kam is the IEEE Region 2 Director and is Professor and Director, Data Fusion Laboratory at Drexel University’s Electrical and Computer Engineering Department. The Data Fusion Laboratory, which he founded in 1989, is devoted to mobile robots and multi-agent sensor fusion.

Dr. Kam has served the IEEE as the Philadelphia Section Chair, 1998; Chair of the Philadelphia Section Circuits and Systems/Control Systems Chapter; Chair of the Philadelphia Section Communications/Information Theory Chapter; Associate Editor of the IEEE Transactions on Systems, Man and Cybernetics; GOLD Program Representative, 1999-2000; and has chaired several IEEE conferences.

Dr. Kam received the IEEE Third Millennium Medal, 2000; the Philadelphia Section Past Chair Award, 1999; and Chapter of the Year Award, 1994. He was the recipient of the National Science Foundation Presidential Young Investigator Award in 1990, the C. Holmes MacDonald Outstanding Young Electrical Engineering Educator Award in 1991, the Drexel University Research Award in 1998, and the Distinguished Professor Award in 2000. Dr. Kam received degrees from Tel Aviv University (BSEE, 1977) and Drexel University (MS 1985, Ph.D. 1987).
Elena Schreiber  
Pittsburgh Section

Amarjeet Basra  
Northern Virginia Section

Sharon Basra

Ed Simoncek  
Susquehanna Section

Howard Needham  
Washington D.C. Section

Jalal Jalali  
Youngstown Section

Farin Jalali

J F Burns  
Southern New Jersey Section

Jorome T. Gibbon  
Region 2 Area Chair - South

Robert A Conn  
Region 2 Treasurer

A B Shafeei  
Region 2 Sections Congress Rep

Dan Repperger  
Region 2 Area Chair - Ohio

Richard D. Klafter  
Region 2 Continuing & Professional Education

Joseph A. Kalasky  
Region 2 Industry Relations Coordinator

William P. Walsh, Jr.  
Region 2 Membership Development

Ralph M. Ford  
Region 2 Conference Coordinator

Thomas A. Chmielewski, Jr  
Region 2 Employment Activities Coordinator

Shrekanth Mandayam  
Region 2 Student Activities

Ram Achuthanandam,  
Drexel University

Bob Tuelevski  
Region 2 Student Activities

Parvis Famouri  
Region 2 PACE

Melvin Hotz  
Baltimore Section Chair 1976-77  
Maryland Board of Professional Engineers Section Representative

Eileen Hotz

Gordon Gaertner  
Baltimore Section Chair 1991-93  
PES Chapter Chair 1982-83

Louise Gaertner

Neville Jacobs,  
Reliability Chair 1987-96  
Baltimore Section Student Activities

Lois Jacobs

Joseph Pollitt  
Baltimore Section Chair 1981-82  
Baltimore Section Chair 1985-86  
Baltimore Section Audits / Bylaws

Boris Gramatikov  
Baltimore Section Secretary 2004  
EMB Chapter Chair 2000-02
Centennial Celebration Banquet Attendees

Moshe Kam
Region 2 Director

Aris Melissaratos
Secretary, Maryland Department of Business and Economic Development

Lewis Terman
Director IEEE Division I

James Armitage
VP Engineering Northrup Grumman Electronic Systems Division

James T. Carlo
President IEEE Standards Activities

Jeffrey Friedhoffer,
Baltimore Section Chair 2003-04
Communications Chair 2000-02

Carol Friedhoffer

Merrill Skolnik
Fellow IEEE

Judith Skolnik

Kumar Barve
Maryland House of Delegates Majority Leader

Maureen Quinn

Thomas A. Tullia
Region 2 Vice Chair & Director Elect

Marc T. Apter
Past Region 2 Director

Thomas Fagan
Chair RADAR '05
Philadelphia Section Chair 1978-79

John Dentler
Baltimore Section Chair 1998
Annapolis Subsection Chair 1992-94
Region 2 Secretary 2004

Katie Dentler

Leo Young
Fellow IEEE
President IEEE 1980

Jo-Ellen Turner

Carole Carey
Baltimore Section Chair 2001
EMB Chair 1995-97, Region 2 WIE 2004

Daniel Toland
Manager IEEE Regional Activities Administration

Russell T. Harrison
IEEE-USA Legislative Representative

Fredric R Nadeau
Cincinnati Section

Matthew S Barratt
Cleveland Section

Ted Woo
Philadelphia Section

Paul E Kladitis
Dayton Section

Kimberley Kladitis

Douglas F. Tipton, Jr.
Delaware Bay Section
Region 2 Area Chair - Maryland

Yvonne Tipton

Tony Silva
Lehigh Valley Section
Elena Schreiber  
Pittsburgh Section

Amarjeet Basra  
Northern Virginia Section

Sharon Basra

Ed Simoncek  
Susquehanna Section

Howard Needham  
Washington D.C. Section

Jalal Jalali  
Youngstown Section

Farin Jalali

J F Burns  
Southern New Jersey Section

Jerome T. Gibbon  
Region 2 Area Chair - South

Robert A Conn  
Region 2 Treasurer

A B Shafeei  
Region 2 Sections Congress Rep

Dan Repperger  
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Baltimore Section Vice Chair 2004  
AP/MTT Chair 1996-98

Jeanne Sequeira

Ralph Bruce  
Baltimore Section Chair 2000  
Annapolis Subsection Chair 1991-92

Carla Bruce

Christopher Nemerich  
Baltimore Section Chair 1994-95  
Annapolis Subsection Chair 1985-86  
Baltimore Section Program Dir 2004

Mary Nemerich

Ronald Aloysius  
Baltimore Section Newsletter 2004

Peter Andrews  
Baltimore Section

Natalie C Yopconka  
Past IEEE Computer Society Standards and Technical Committees

Les Sonnenmark  
Annapolis Subsection Chair 1987-88

Kenneth Sebra  
Baltimore Section Chair 1983-85

Charlotte Sebra

Gilbert Garduno  
Baltimore Section Chair 1988-89  
Annapolis Subsection Chair 1979-80

June Garduno

Robert Berkovits  
EMC Chapter Chair 2002-04

Joan Miller

Steven Stitzer  
Fellow IEEE  
AP/MTT Chapter Chair 1980-81

Mohan Ray  
Baltimore Section

Domenic Georganantas  
Baltimore Section GOLD  
JHU Student Branch Chair 1997

Ekaterina Georganantas

James Thurber  
PES Chapter Chair 1987-9

Kathy Thurber

Henry Diener  
Baltimore Section

Patricia Diener

Zechen Chang  
Baltimore Section  
Kevin Cheng  
Baltimore Section

Harold (Joe) O'Banion  
Baltimore Section EMC Chapter

Debra O'Banion

Edward Niehenke  
Fellow IEEE  
AP/MTT Chair 1979-80 MTT-S

Betty Niehenke

Ted Nelson  
Baltimore Section AP/MTT MTT-S

Andrew Barnes  
JHU Student Branch Treasurer

James Ballew  
JHU Student Branch
Phil Nigon  
JHU Student Branch President

Bari Braunstein  
JHU Student Branch

John Henson  
JHU Student Branch Secretary

Michael Curtis  
JHU Student Branch

Max Riess  
JHU Student Branch

Ravi Mody  
JHU Student Branch
100 Years
A brief history of the Baltimore Section of the Institute of Electrical and Electronic Engineers (IEEE)

The Baltimore Section IEEE of today traces its roots to both the Baltimore Section (referred to later as the Maryland Section) of the American Institute of Electrical Engineers (AIEE) and the Baltimore Section of the Institute of Radio Engineers (IRE). The AIEE was founded on May 13, 1884 in New York and quickly gained recognition as a representative for American electrical engineers. The IRE was formed from two largely local organizations, the 'Society of Wireless and Telegraph Engineers' and the 'Wireless Institute' in 1912. The IEEE was formed in 1962 with the merger of two societies. [1]

Baltimore Section AIEE

The AIEE Baltimore Section began its existence on December 16, 1904. Research into the early years of the Baltimore Section AIEE is ongoing; however, what is known about the Section is presented here.

William Bennett Kouwenhoven was chairman of the Section from at least 1924 until 1929. The Secretary was T. Greer. W. B. Kouwenhoven was a pioneer in understanding electricity and the heart, was born on 13 January 1886 in Brooklyn, NY. His greatest achievement was the development of the closed-chest electric cardiac defibrillator, which was used for the first time in the 1950s to save a human life, and has since been used to save thousands more. Dean of Johns Hopkins Electrical Engineering School from 1938 to 1954, Kouwenhoven was an IEEE Fellow, recipient of the Edison Medal in 1961 and the Power Life Award. He was a prolific author of technical publications. He was also recipient of the Albert Lasker Medical Research Award, one of the medical profession's highest honors. [2]

Some of the Section meetings held during Kouwenhoven's tenure as Chair were detailed in the AIEE Journal. Some of the meetings and descriptions are reprinted here.

16 Nov 1923: Engineers' Club, Subject: "Problems of Electrochemistry and Electrometallurgy" Speaker: Mr. W. W. Rouse, Attendance: 60

17 Nov 1923: Inspection trip to the Baltimore Copper Works. Guides were appointed by the company to point out to the members, who had been divided into groups of ten, the interesting features.

14 Dec 1923: Engineer's Club: Subject: "The Engineer": Speaker: Dr. S. W. Stratton, President of MIT. This meeting was held jointly with the local branch of ASME and the alumni of MIT Association of Baltimore. Attendance: 90.

18 Jan 1924: John's Hopkins University (that is how it's spelled in the AIEE Journal) Subj: "Vacuum Tubes" Speaker: Dr. A.W. Hull of the General Electric Company. Refreshments were served. Attendance: 150.

1 March 1924: Club House, Holtwood, PA. Joint with ASME. Papers: "The
Holtwood Power Development" Mr N. B. Higgins and R. L. Thomas, of the Pennsylvania Water and Power Co. Attendance: 150

15 February 1924: Outstanding Developments in Radio, by Professor L. G. Hazeltine. The speaker gave a very interesting talk on radio receiving circuits and exhibited slides and several different types of receiving sets. Refreshments were served. Attendance: 185

21 March 1924: Interconnection and Superpower, by Stevens T. Hayes. The talk proved to be very interesting and he illustrated many points with slides. Refreshments were served, Attendance: 60

17 October 1924: Automatic Sub- Stations, by Adrian Hughes, United R. R. & Electric Co., and C. A. Butcher, Westinghouse Elec. & Mfg. Co. Refreshments were served. Attendance 87

18 October 1924: Inspection Trip to the new Gay Street Sub-Station of the United Railway Co. Luncheon was served. Attendance 57

1 November 1924: Weir Single-Stage Centrifugal Boiler-feed Pump, by J. B. Lincoln and Endurance Properties of Metals, by Dr. D. J. McAdam, Jr. All- day meeting held jointly with ASME at the U. S. Naval Academy in Annapolis. In the afternoon the visitors attended the Navy-Penn State Football Game. Attendance 35

21 November 1924: Development of Distribution System, By R. B. Mateer. Refreshments were served. Attendance 47

12 December 1924: Electricity in the Home, by Mrs. Elizabeth J. McDonald, Editor of Modern Priscilla, and M. O. Ryley, General Electric Company. Motion pictures and slides were shown. Supper was served. Attendance: 150

15 January 1925: Railways Transportation, by W. B. Potter, General Electric Co. The speaker, with the aid of pictures, discussed the various engineering features involved in modern transportation, showing the comparison of steam and electric propulsion as applied. The modern gasoline engine, the diesel and semi-fuel oil engines were also discussed. A dinner preceded the meeting. Attendance: 96

20 February 1925: The Klydonograph, by Dr. J. F. Peters, Westinghouse Electric & Manufacturing Co. One of the points brought out was the ability of this instrument to measure the velocity of electricity. A dinner preceded the meeting. Attendance: 104

20 March 1925: Design of Power Transformers, by H. O. Stevens, General Electric Company. Refreshments were served. Attendance: 59

26 October 1928: Welding of Steel Bridges and Building, by F. P. Mcibben, Consulting Engr., Illustrated. Baltimore Section, AIEE invited to meet with ASCE Section and the Engineers' Club of Baltimore. Attendance: 50

9 November 1928: Inspection Trip to Steel Plant, Sparrows Point. Joint with ASME and the Baltimore Engineers' Club. Attendance: 250

was held prior to the meeting. Refreshments served. Attendance: 150

10 January 1929: The Development of Lighter-Than-Air Ships, by W. W. Pagon. Attendance: 95


15 March 1929: Electrical Eyes and Their Use in Communications, by John Mills, Director of Publications, Bell Telephone Laboratories, ASME, IES and Engineers' Club invited to participate. Attendance: 205

Sometime in the 1930’s or 1940’s, the AIEE enlarged the area covered by the Baltimore Section and it became known as the Maryland Section AIEE. The AIEE then grouped Sections into Districts. The Maryland Section was part of District 2. The area covered by the AIEE District 2 was similar to the present IEEE Region 2 of today.

The last two Baltimore AIEE Section Chairmen were J.T. Wilner of WBAL (1961-62) and S. Taborsky in 1962-63. In that year, the Middle Eastern District Number 2 of the AIEE approved the formation of the Annapolis Subsection by petition. The Subsection officially began on December 1, 1962. At that time, the Annapolis Subsection encompassed Anne Arundel County. The first and last Subsection Chair was F.G. Logan and the Secretary was Wendell C. Phillips.

**Baltimore Section IRE**

The Baltimore Section of the IRE was formed in 1939 and became an official Section in January 1940. The Washington D.C. Section relinquished part of its territory so that the Baltimore Section could be formed. The founders of the Baltimore Section IRE were C.A. Ellert, Ferdinand Hamburger Jr (JHU) and Alexander Whitney (Westinghouse). Ferdinand Hamburger later became the IRE Region 3 Director. His photograph and biography appear on a subsequent page. The first meetings were held in the fall of 1939. Excerpts from the IRE PROCEEDINGS describing the first meetings appear on the next page.

Effective January 1, 1946, the IRE assigned a larger territory around each city section so that all IRE members would be served by a section. The eastern half of Maryland including the Eastern Shore as well as Cecil and Calvert Counties were assigned to the Baltimore Section. Within a few years, the IRE formed Regions and the Baltimore Section was assigned to Region 3. Region 3 stretched from Philadelphia, PA to Miami, FL. The map of the new 1946 Baltimore Section is presented on a subsequent page. IRE Baltimore Section membership figures are given below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Membership Total</th>
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<tbody>
<tr>
<td>1939</td>
<td>80</td>
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<tr>
<td>1940</td>
<td>82</td>
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<tr>
<td>1944</td>
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<td>1960</td>
<td>1,567</td>
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<tr>
<td>1961</td>
<td>1,846</td>
</tr>
<tr>
<td>1962</td>
<td>1,955</td>
</tr>
</tbody>
</table>
Baltimore Section IRE Chairs were as follows:

C. A. Ellert 1939-40
F. Hamburger Jr 1940-41
V. D. Hauck Jr 1941-42
G. J. Gross 1942-44
W. L. Webb 1944-45
R. N. Harmon 1945-46
H. L. Spencer 1946-47
F. W. Fischer 1947-48
G. P. Houston 1948-49
E. W. Chapin 1949-50
J. W. Hammond 1950-51
J. V. Lebacz 1951-52
D. G. Little 1952
C. E. Mcclellan 1952-53
G. R. White 1953-54
C. D. Pierson Jr 1954-55
C. F. Miller 1955-56
M. I. Jacob 1956-57
M. R. Briggs 1957-58
J.T. Wilner 1961-62
S. Taborsky 1962-63

In 1959, the IRE stopped publishing the names and news from Sections in the PROCEEDINGS to allow for expanded technical paper coverage (as voted on by the membership). Therefore, we were unable to locate the names of the 1959 and 1960 IRE Baltimore Section Chairs.

The AIEE and IRE merge to form the IEEE

The structural development and general activities of the IRE were similar to those of the AIEE. Many of the original members of the IRE were also members of the AIEE and both organizations continued to have members in common until the merger in 1963.

In 1961, the leadership of both the IRE and the AIEE resolved to seek an end to their differences through consolidation.
The next year, a merger plan was formulated and approved. It became effective on 1 January 1963. The Baltimore Section IEEE was formed in January 1963. [1] The new Baltimore Section had two Subsections, Annapolis and the Eastern Shore. The Baltimore Section encompassed the Baltimore metropolitan area and surrounding counties of Howard, Baltimore, Anne Arundel, Carroll, and the entire Eastern Shore of Maryland. The Section was assigned to IEEE Region 2.

The Eastern Shore Subsection became a separate Section in 1972. It was dissolved in 1999 and its members were again assigned to the Baltimore Section. The Subsection was not reformed.

Today, the Baltimore Section IEEE has more than 4,600 members in Baltimore City and the counties of Anne Arundel, Carroll, Harford, Howard, Calvert (the northern portion), Kent, Queen Anne’s, Caroline, Dorchester, Wicomico, Somerset and Worcester.

796 different companies, universities, government and other organizations employ Baltimore Section members.

The Baltimore Section IEEE has 10 active Technical Chapters. These are:
- Aerospace and Electronic Systems
- Antennas Propagation / Microwave Theory
- Communications
- Computer
- Electromagnetic Compatibility
- Electron Devices / Solid State
- Engineering in Medicine and Biology
- Industry Applications
- Power Engineering
- Reliability

Baltimore Section Technical Society Chapters have won numerous awards over the years (not detailed here).

**Baltimore Section Chairs**
S Taborsky 1962-63
Carroll M Barrack 1965-66
Keats A Pullen 1966-67
James G Holman 1967-68
Lewis G Larsen 1968-69
Alfred R Bolz 1969-70
Albert J Mcubbin 1970-71
Richard J Allen 1971-72
Joseph K Ruth 1972-73
William C Farrell 1973-74
John L Markwalter 1974-75
John C Handy 1975-76
Melvin Hotz 1976-77
Bruce Masland 1977-78
F Edward Baker 1978-79
Joseph M Pollitt 1981-82
Joseph E Hunter Jr 1982-83
K H Sebra 1983-85
Joseph M Pollitt 1985-86
Peter D Hrycak 1986-87
W C Von Nordeck 1987-88
Gilbert Garduno 1988-89
Joseph C Goldbeck 1989-90
Wayland Neil Hall 1990-91
Gordon H Gaertner 1991-93
Frank J Velesz Jr 1993-94
Christopher P Nemarich 1994-95
Kate B Carus 1996
Paul J Frey 1997
John Dentler 1998
William B Dixon 1999
Ralph W Bruce 2000
Carole C Carey 2001
Virgilio P Arafiles 2002
Jeffrey A Friedhoffer 2003-04
Annapolis Subsection Chairs
F.G. Logan 1962-63
Wendell C. Phillips, Jr 1963-64
Chancy F Whitney 1965-66
Irving Lindow 1966-67
Kurt Hollander 1967-68
Albert A Smith 1968-69
Lyman W Griswold 1969-70
John L. Markwalter 1970-71
M S Hastings 1971-72
Charles M Weant 1972-73
M Bowers 1974-75
F Edawrd Baker 1975-76
Jake H Halfad 1976-77
Ted Lesster 1977-78
Gilbert Garduno 1979-80
William R Mcwhirter Jr 1980-81
Tian S Lim 1981-82
Henry K Whitesel 1983-84
David B Boswell 1984-85
Christopher P Nemarich 1985-86
Norm Idelson 1986-87
Les Sonnenmark 1987-88
Chester R Petry 1989-90
Christopher P Nemarich 1990-91
Ralph W Bruce 1991-92
John Dentier 1992-94
John M Young 1994-95
Thomas A Tullia 1996
David C Boyd 1997-2004

Reliability Chapter Chairs
Formed August 22, 1963
Jonathan D Lessels 1979-80
Bernhard A Bang 1980-81
Thomas E Reid 1984-85
Wayland Neil Hall 1985-87
Neville E Jacobs 1987-96
Walter E Willing 1997-2004

Aerospace and Electronic Systems Chapter Chairs
Formed (second time) July 8, 1991
A E Dietz Jr 1979-80
Richard J Wieand 1980-81
Michael Feil 1982-84
T P Henry 1991-92
James D Hendry 1992-93
William B Dixon 1993-95
George K Ridley 1994-95
Mark Brown 1996
Brian K Bare 1997
George K Ridley 1998
Mark Brown 2000-01
Dewayne H Bebout 2002
William B Dixon 2003-04

Computer Chapter Chairs
Formed February 1, 1955
D C Friedmann 1979-80
Andrew M Veronis 1980-83
Joseph E Hunter Jr 1983-84
James E Coolahan Jr 1984-86
Allan B Anderson 1986-91
John H Curley 1991-92
Allan B Anderson 1992-95
Perry Shelton 1996-97
Garth R Mackenzie 2001-04

Engineering in Medicine and Biology Chapter Chairs
Formed September 24, 1986
Joshua E Tsitlik 1986-88
Russell C Eberhart 1988-89
W R Webber 1989-91
A A Wolf 1994-95
Carole C Carey 1995-97
Glenn B Bell 1998-99
Boris I Gramatikov 2000-02
David Sherman 2003-04
Communications Chapter
Chairs
Formed November 1, 1967
James R Ransom 1983-84
Olaf N Rask 1984-86
Gerard J Quenelleville 1987-88
Robert E Weiblen 1988-97
Mark D Todd 1997-98
Jeffrey A Friedhoffner 2000-02
Thad B Welch 2003-04

Power Engineering Chapter
Chairs
Formed October 29, 1963
Joseph M Pollitt 1978-79
Joseph E Hunter Jr 1979-80
W C Von Nordeck 1980-81
Gordon H Gaertner 1982-83
Bayard S Koch 1983-84
William A Keagle Jr 1985-86
Rudolf R Walter 1986-87
Donald W Rumor 1987-88
Harry L Salvo Jr 1988
Guive Nabet 1988-89
Andrew J Bonthron 1989-90
James A Thurber 1990-91
John N Borkoski 1991-92
Paul J Frey 1992-93
A C Burton 1993-95
David A Rowse 1996
Lisa E Potochney 1997
Joseph G Bunch 1998
Amy R Hagemann 1999
Stephen J Woerner 2000
Robert D Biagiotti 2001
Kirk A Rae 2002
James F Ryan Jr 2003
Eric Henlon 2004

Industry Applications
Chairs
Formed December 16, 1964
Larry S Shannahahan 1979-80
Joseph C Goldbeck 1984-85
Allen C Howe II 1985-86
Donald L Helmey 1986-88
Kate B Carus 1988-89
Diane C Ewing 1990-91
Arthur H Beasman 1991-92
Thomas J Patton 1992-93
Carl E Canatella 1993-95
Edward W Mitchell 1996
Annette Allender 1996
Edward W Mitchell 1997
Wesson H Miller Jr 1998-99
C Scott Gordon 2000-01
Robert A Banas 2003
Mark J Welsko 2003-04

Electromagnetic Compatibility
Chapter Chairs
Formed (second time) Nov 1, 1990
Hugh C Maddocks 1979-80
William E Tate 1979-80
V Mcconnell 1980-82
Thomas R Watt 1992-96
Theodore L Harwood II 1995
Frederick B Kirby 1999
John V Anderson 2000-01
Robert J Berkovits 2002-04

Antennas Propagation
Microwave Theory Chapter Chairs
Formed (as an IRE Professional Group) November 9, 1954
Lawrence R Whicker 1970-71
B D Geller 1977-78
E Niehenke 1979-80
Steven N Stitzer 1980-81
Dale E Dawson 1981-82
Daniel C Buck 1982-83
Peter D Hrycak 1983-85
Suman D Patel 1985-86
John W Gipprich 1986-87
David Sall 1987-88
D Keith Breakfield 1989-90
Peter A Stenger 1991
Steven L Anthonisen 1991-92
Jon A Moellers 1993-95
Hermann B Sequeira 1996-98
Howard Fudem 1999-2000
Hyo Kun Hahn 2001-02
Brad L Mccarthy 2003
Thomas M Walsh 2003-04
Electron Devices Solid State Chapter
Chairs
Formed December 3, 1997
Arlene A Santos 1997
Paul A Potyraj 1998-99
Anna W Roesch 2000
David M Burnell 2001-04

Education Chapter
Chairs
Formed September 8, 1994
Dissolved December 31, 1999
Samuel J Biondo 1994-95
Suzanne E Keilson 1996-98

Baltimore Section
IEEE Fellows
John Adam
R Adams
John Allen
George Axelby
Quirino Balzano
David Barbe
Frank Brady
Emanuel Brancato
William Brody
Norman Caplan
J Cricchi
L Davisson
N De Claris
Wilfred Dean
James Degenford
Lawrence Dickens
Bharat Doshi
Richard Doughty
Michael Driscoll
Delores Etter
Lyle Feisel
Karl Gerlach
James Hall
J Hammer
Conrad Hoeppner
Harold Hughes
Robert Hunsperger
Frederick Jelinek
Arthur Jensen
Anthony Johnson
L U Kelling
G Kilgore
J Kopper
S Rao Kosaraju
R Lee
A Lind
R Longuemare
Gerald Masson
Curtis Menyuk
Grayson Merrill
R Moore
Peter Myers
E Niehenke
Chester Page
Benjamin Pontano
Jerry Prince
John Przybysz
Keats Pullen
R Raney
Thomas Rogers
Frederick Rogers
Azriel Rosenfeld
Wilson Rugh
Frank Rushing
Helmut Schrank
Zary Segall
R Silliman
William Skillman
H Smith
James Smith
G M Sommerman
James Spall
Steven Stitzer
G Stout
G Strull
P Sulzer
Russell Taylor
Nitish Thakor
G Trunk
Leslie Wall
Harry Wallace
Ronald Waynant
Bruno Weinschel
Leo Young
James Ziegler
Ferdinand Hamburger, Jr., Regional Director of the Central Atlantic Region, was born at Baltimore, Md., on July 5, 1904. He was graduated with the degree of Bachelor of Engineering in electrical engineering from The Johns Hopkins University in 1924. After participating in a program of dielectric research for several years, he earned the degree of Doctor of Engineering from that University in 1931. He was a Charles A. Coffin Fellow in 1930–1931.

Dr. Hamburger, who has been on the staff of the electrical engineering department of The Johns Hopkins University since 1931, was appointed professor of electrical engineering in 1947. He served as chief test engineer for Bendix Radio Division from 1942 to 1945 while on partial leave of absence from the University, as Consultant for the NDRC, Section 17-2, during 1944–1945, and as Consultant to the Research and Standards Section, Bureau of Ships, Navy Department during 1945–1946. He is Associate Director in charge of Engineering of the Systems Research contract between The Johns Hopkins University and Special Devices Center, Office of Naval Research, at the present time.

Dr. Hamburger joined The Institute of Radio Engineers as an Associate Member in 1931, and became a Member in 1939 and was elevated to the grade of Senior Member in 1943. He was largely responsible for the formation of the Baltimore Section of the Institute in 1939 and for its reorganization in 1944.

He has served as Chairman of the Section in 1940–1941, and has been a member of its Executive and Meetings and Papers Committees since its inception. Dr. Hamburger has been the IRE representative at The Johns Hopkins University since 1941.

He is also a Fellow of the American Institute of Electrical Engineers, a member of the Societies of Sigma Xi and Tau Beta Pi, and a Director of The Engineers Club of Baltimore. Dr. Hamburger is the author of numerous technical papers.
Early in 1945, the Board of Directors adopted a new policy concerning Section territory in the United States. It was decided that instead of assigning a small territorial area around the city center of each section, the remaining unassigned territory of the United States would be assigned to sections. It was also planned to do the same with Canada.

The Sections’ Committee met and drew up a suggested assignment. The assignment for the United States has been approved and is to take effect January 1, 1946. The proposed assignment for Canada has not yet been approved as the desires of the members and sections in that area have not been received.

The new method of assigning territory means that every member of the Institute in the United States becomes a member of some section. As such he will be on the membership list of his section and should receive notices of meetings.

The assignments were made on the basis of distance and travel habits so far as they were known to the committee. The proposed division was submitted to the Chairman of all Sections with a request for comments. Several suggestions for changes were made and where there was some doubt about the wisdom of the changes, polls were taken of the members residing in the areas in question. These areas have now been assigned in accordance with the majority vote received from such members. The attached map, which shows the outlines of the territories for the sections was drawn up and approved.

The assignment of all territory to sections will call for certain new operational policies upon the formation of new sections. Herefore, the formation of most sections required only the assignment of unassigned areas to the proposed new section. A few new sections have been formed which called for removing some area from an older section. Now all new sections will of necessity be carved out of present sections. However, the opportunity for the establishment of new sections will not be reduced at all. The practice followed in such establishment will be modified only to the extent of asking the new and old section officers to agree on their respective areas. If any difference in opinion exists, the Executive Committee will poll the members in any disputed area, or decide the matter upon whatever pertinent information is available.

Map, showing new territorial boundaries of sections, effective January 1, 1946.
AMERICAN INSTITUTE of ELECTRICAL ENGINEERS

SECTIONS COMMITTEE

Address Reply to H. C. Brem
Allis Chalmers Mfg. Co.
P. O. Box 512
Milwaukee 1, Wisconsin

December 28, 1962

TO THE OFFICERS OF THE MIDDLE EASTERN DISTRICT NO. 2
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
THE MARYLAND SECTION AND THE ANNAPOLIS SUBSECTION

The petition of the Annapolis Subsection of the Maryland Section has been approved and the effective date of organization is December 1, 1962. The new Annapolis Subsection officers are:

Mr. F. G. Logan, Chairman
1015 Norman Drive
Annapolis, Maryland

Mr. Wendell C. Phillips, Jr., Secretary
Rolling Ridge Farm
Harwood, Maryland

The Maryland county of Anne Arundel is assigned to the new Annapolis Subsection.

All Institute records of the Districts, Sections, Branches and Members should be changed accordingly.

Very truly yours,

\(\text{Signature}\)

H. C. Brem, Chairman
Sections Committee

HCB: rw

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Information compiled by: Christopher Nemarich, Baltimore Section IEEE Program Director. Please direct any corrections or additional information to c.nemarich@ieee.org

References
[1] IEEE Website

Acknowledgements

The Baltimore Section gratefully acknowledges the support of the following individuals who provided their assistance in researching the information for this booklet and for providing the needed documents.

Vicki Waldman
Donna McClelland
IEEE Section/Chapter Support

Robert D. Colburn
Research Coordinator
IEEE History Center, Rutgers University

Mary Ann Hoffman
Manager, Archival & Web Services
IEEE History Center

Kate Marks, Director
Kristin Qualls, Assistant Director
Tom Ballard, Librarian
Historical Electronics Museum, Inc
Linthicum, MD