



1966 - 2016

R9 Latin America 50 ANNIVERSARY

Francisco Martinez.
R9 History Chair

R9 Meeting Trinidad and Tobago, 2 March 2016





**“If you don't know history, then you don't know anything.
You are a leaf that doesn't know it is part of a tree.”**

Michael Crichton

Together we can write R9's History

Our History

Our story of innovation begins with our spirit of collaboration.

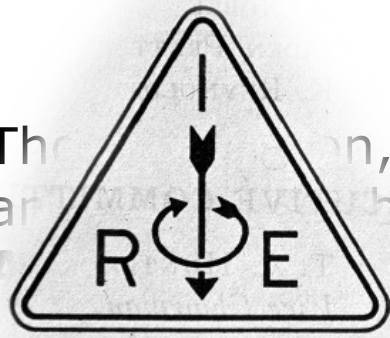


The Founding of IEEE

1884 1912 1963 Present



AIEE
American Institute
of Electrical Engineers



IRE
Institute of Radio
Engineers

The American Institute of Electrical Engineers, Alexander Graham Bell, and other pioneers of wireless technologies and electronics founded the **Institute of Radio Engineers.**

AIEE and IRE merged to become the Institute of Electrical and Electronic Engineers, or **IEEE.**

1963, OUR HISTORY: The evolving of IEEE in R9

- ▶ There were several Sections in Latin America belonging to AIEE and IRE when these two associations merged in 1963. The Latin America sections at that point in time were:
 - An AIEE Section in Mexico (1922)
 - IRE Sections in Argentina, (1939), Brazil, (1956), Colombia (1958) and Chile (1961).
- ▶ For these IEEE Sections outside US (Regions 1-6) Canada (R7) and Europe (R8), the territory was named "rest of the World" or "Region 9". At that time, R9 Sections were coordinated directly from HQ IEEE in US.

1965, December 31

IEEE Report of the Secretary

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection by Grade, December 31, 1965

REGION 7

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Bay of Quinte		3	40	96	15	82		236
Hamilton		2	49	155	44	69		319
Kitchener-Waterloo		1	14	49	25	33		165
Guelph			9	24	4	6	43	173
London			15	74	31	53		1,354
Montreal		12	246	841	122	133		203
Niagara-International		2	39	104	19	39		269
Northern Alberta			9	86	22	152		791
Ottawa	1	16	97	449	95	133		126
Quebec			20	80	7	19		134
Regina			4	39	12	79		43
St. Maurice		1	6	24	10	2		294
Southern Alberta			4	51	33	206		1,521
Toronto		18	202	771	235	295		804
Vancouver		7	123	322	85	267		107
Victoria		2	18	63	17	7		286
Winnipeg		1	13	103	27	142		
	1	65	908	3,331	803	1,717		6,825

REGION 8

Benelux		10	70	150	36	69		335
Egypt			16	50	15	6		87
France		14	72	155	52	3		296
Geneva		11	62	153	19	14		259
Israel		2	11	88	20	8		129
Italy			41	185	108	36		370
Norway		1	15	46	8			70
Sweden		7	22	112	54	5		200
United Kingdom & Eire		40	298	615	104	28		1,085
West Germany		10	54	101	27			192
		95	661	1,655	443	169		3,023

REGION 9

Buenos Aires		3	24	69	24	35		155
Chile			8	25	6	2		41
Colombia			8	67	14	19		108
Kanpur-India		1	1	8				10
Mexico		5	59	148	19	53		284
Puerto Rico & Virgin Is.			21	128	17	69		235
Rio de Janeiro		3	8	35	6	1		53
Tokyo	1	10	110	333	98	142		694
	1	22	239	813	184	321		1,580

1966: History begins for R9

- The growth of IEEE's activities in Latin America made IEEE officially form an entity with its own structure, not only geographically but also administrative.
- Guillermo Andrews from Argentina was appointed as the first Region 9 Director for a two year term (1966-1967).
- Mr. Andrews, in conjunction with Francisco Hawley (second R9 Director, 1968-1969), from Mexico, were fundamental in the formation of Region 9.
- That year, IEEE President Walter Mac Adam visited 7 countries in the Region to contact the existing Sections' volunteers and to promote activities and the formation of more sections.

1966: First Region 9 Director



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

ORGANIZATIONAL ROSTER

SEPTEMBER 1966



Guillermo Juan Andrews

REGION 9

DIRECTOR

G. J. Andrews
Las Lomas 415
San Isidro FCNGBM
Buenos Aires, Argentina

Buenos Aires SECTION

Humberto Rafael Ciancaglioni, Chairman
Juan B. Justo 2418
Olivos-FNBM-Argentina
Juan A. Del Giorgio, Vice Chairman
Amilcar H. R. Klimann, Secretary-Treasurer

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B. Dezeraga, Chairman
Bilbao 5386
Santiago, Chile, S. A.
Jaime De La Quintana, Vice Chairman
R. J. Puvogel, Secretary-Treasurer

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Ofc. 408
Bogota, Colombia, S. A.
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India Institute of Technology
Electrical Engineering Dept.
Kanpur, Uttar, Pradesh, India

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Takashi Okada, Secretary-Treasurer

G-MTT CHAPTER

Hideo Iwakata, Chairman

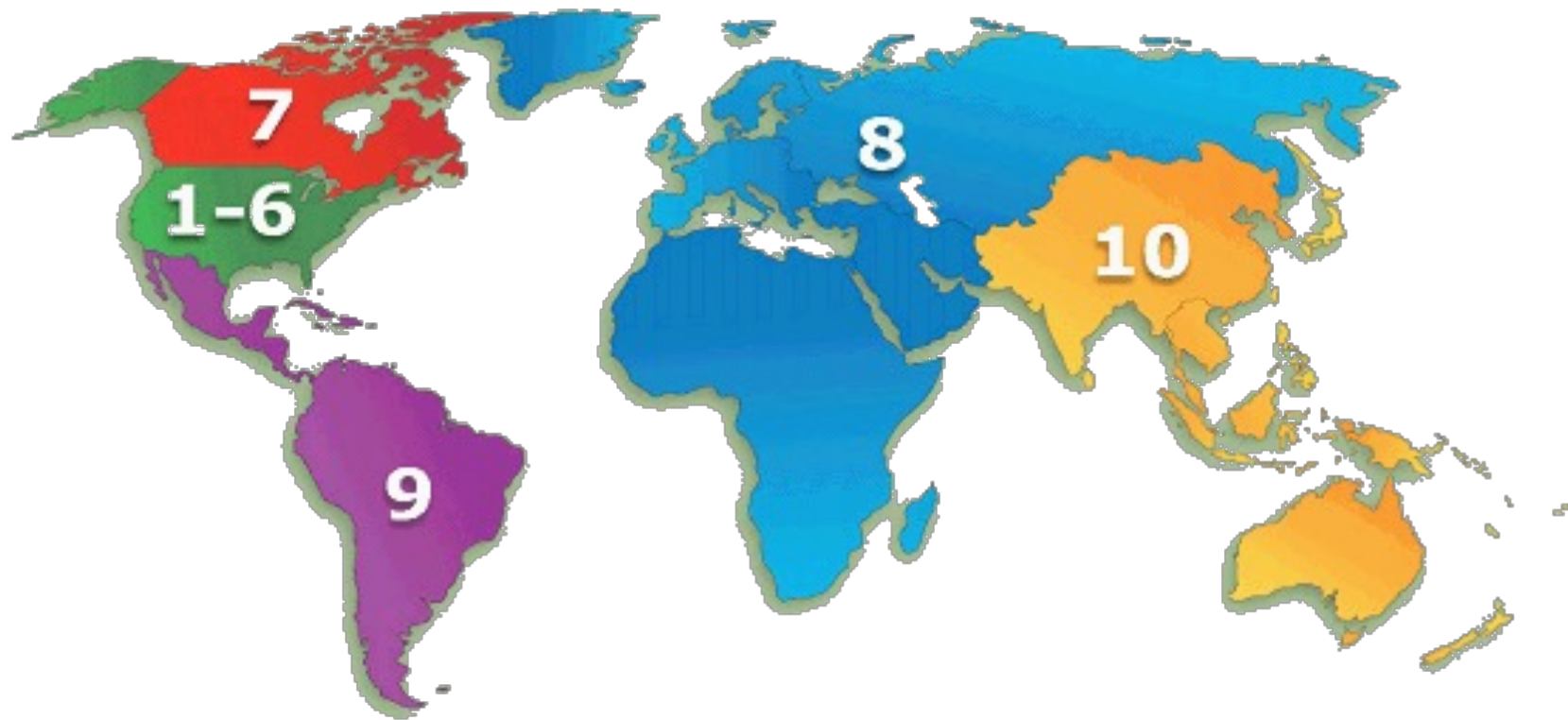
G-P CHAPTER

Takashi Ohtsuki, Chairman

1967: New Geographic Area For R9

- ▶ In 1966, IEEE R9 director and IEEE BoD decided to reorganize R9 geographic territory for a better functionality.
- ▶ In the bylaws approved in November of 1966, it is stated:
"Effective January 1, 1967, the territory comprising the Caribbean and Bahama Islands, South America, Central America and North America (except the United States and Canada) shall be designated Region 9."
- ▶ The first Regional Meeting was held in Buenos Aires, Argentina, in 1967 and gathered most of R9 Section Chairs.

1967: The Geographic IEEE Regions



How We Have Impacted

The Legacy of Region R9 is everywhere.

R9 Directors

Term	Director	Country
1966-1967	Guillermo Andrews †	Argentina
1968-1969	Francisco Hawley †	México
1970-1971	Carlos Lohman †	Brazil
1972-1973	Ernesto Obregón	Colombia
1974-1975	José R. Costa De Lacerda	Brazil
1976-1977	Luis Ruperto Jiménez	Perú
1978-1979	Carlos Rivera Abrams	Puerto Rico
1980-1981	Oscar Carlos Fernández †	Argentina
1982-1983	Eduardo Bonzi Correa †	Chile
1984-1985	Ramiro García Sosa	México
1986-1987	Sergio Fronterotta †	Brazil
1988	Carlos Rodriguez	Panama
1989-1991	Luis T Gandia	Puerto Rico

Term	Director	Country
1992-1993	Eduardo Arriola	México
1994-1995	Hugo Fernandez Versteeggen †	Argentina
1996-1997	Antonio Bastos	Brazil
1998-1999	Juan Carlos Miguez	Uruguay
2000-2001	Pedro Ray	Puerto Rico
2002-2003	Hugh Rudnick	Chile
2004-2005	Francisco Martinez	Mexico
2006-2007	Luiz Pilotto	Brazil
2008-2009	Enrique Alvarez	Peru
2010-2011	Tania Quiel	Panama
2012-2013	Gustavo Giannattasio	Uruguay
2014-2015	Norberto Lerendegui	Argentina
2016-2017	Antonio C. Ferreira	Brazil

R9 Volunteers in IEEE Positions

▶ IEEE President

- 2014 Roberto Boisson de Marca (Brazil)
- 2010 Pedro Ray (Puerto Rico)

▶ IEEE Secretary

- 2006, 2007 Roberto Boisson de Marca (Brazil)
- 2001, 2002 Hugo Maria Fernandez Versteegen (Argentina)
- 1998 Antonio C. Bastos (Brazil)
- 1994 Luis T. Gandia (Puerto Rico)
- 1991 Hugh Rudnick (Chile)
- 1987 Ramiro Garcia Sosa (Mexico)

R9 Volunteers in IEEE Positions..cont

- ▶ IEEE Treasurer
 - 2003, 2004 Pedro Ray (Puerto Rico)
- ▶ Vice President Regional Activities, (Now MGA)
 - 2006, 2007 Pedro Ray (Puerto Rico)
 - 2000 Antonio C. Bastos (Brazil)
 - 1992, 1993 Luis T. Gandia (Puerto Rico)
- ▶ Vice President Technical Activities:
 - 2006 Roberto Boisson de Marca (Brazil)
- ▶ Vice President Educational Activities:
 - 2009 Teofilo Ramos (Mexico)

Publications in R9

- ELECTROLATINA. Technical publication First Issue March 1967 Last Issue Dec 1975
- NoticIEEEro (Regional Newsletter). R9 News and technical articles 1980 started as paper publication, now is electronic version.
- Latin America Transactions. Project launched by Hugh Rudnick in 2003 and its first Editor Jose Jardini (Brazil)
- Enlaces. Student Magazine. Its scope is to inform about University Student Branches. Communication between SAC and students in R9

Some Conferences in R9

- **LATINCON**
 - First Congress in Sao Paulo, 1974
 - End in 1994.
- **CONCAPAN**
 - First congress in 1971 in Guatemala.
 - Held in Central America and rotating among their 6 countries
- **SUMMER POWER MEETING (RVP) Acapulco, Mexico**
 - Sponsored by Mexico Section
 - First Congress in 1987, every year.
- **ANDESCON**
 - First time in Caracas, (Venezuela) 1999
 - Every two years among Andean Countries.
- **LATINCOM (yearly)**
 - Communications Society co-sponsored
- **Transmission and Distribution (T&D LA)**
 - Power and Energy Society co-sponsored
- **Smart Grid Technologies Latin America Conference (ISGT LA)**
 - co-sponsored by the PES. Started in 2011 (Colombia) and followed by São Paulo (2013), Montevideo (2015).

Students Conferences

- CONESCAPAN
 - Central America (28 years)
- INGELECTRA
 - Chile
- INTERCON
 - Peru
- R9 Student Branches Meetings
 - First in Lima, 1997; Second in Rosario (Argentina) 1999, third in Sao Paulo 2001; Since then held every year

R9 Awards

- **“Ingeniero Eminente del IEEE Latinoamérica”**
Established 1974
- **Voluntario Sobresaliente “Oscar C. Fernández” del IEEE de Latinoamérica** Approved 1995
- **Mejor Logro del Año del IEEE Latinoamérica** Approved 1995
- **Premio a la Sección Sobresaliente** Approved 2012
- **IEEE Theodore W. Hissey** Approved 2004
- **Premio al Servicio Meritorio** Approved 2012
- **Premio Discrecional del Director Regional** Approved 2012

Source <http://sites.ieee.org/r9/premios-y-reconocimientos-regionales/>

Joint Awards Established with National Societies

- ▶ The purpose of [National Society Agreements](#) is to encourage cooperation and coordinated joint activities between the country's National Society, and the local countries' IEEE section.
- Chile: AIE/IEEE Joint Prize of Excellence Award was established in 2005 and is presented annually.
- Peru: AEP/IEEE ELEKTRON Award was established in 2000 and is presented biennially.
- Uruguay: AIU/IEEE Joint Award was established in 2013 and is scheduled to be presented every two years.

IEEE Milestone Program

IEEE established the Electrical Engineering Milestones program in 1983 to honor significant achievements in the history of electrical and electronics engineering.

Chile – Dedication: October 2001, IEEE Chile Section

- ▶ *The 1897 430 kW Chivilingo Plant was the first hydroelectric plant in Chile and the second in South America. It represented a new key technology and a new source of electrical energy in the region as a tool for economic development. Chivilingo demonstrated the advantages of industrial use of electricity and hastened its widespread adoption in Chile.*



Date Dedicated: 2001-10-24
Dedication #36
Location: Lota, Chile
IEEE Region: 9
IEEE section: Chile
Achievement date range: 1897

Puerto Rico – Dedication: November 2001, PR & Caribbean Section

Arecibo Observatory, radiotelescope, 1963

- ▶ *The Arecibo Observatory, the world's largest radiotelescope, was dedicated in 1963. Its design and implementation led to advances in the electrical engineering areas of antenna design, signal processing, and electronic instrumentation, and in the mechanical engineering areas of antenna suspension and drive systems. The drive system positions all active parts of the antenna with millimeter precision, regardless of temperature changes, enabling the telescope to maintain an accurate focus. Its subsequent operation led to advances in the scientific fields of radioastronomy, planetary studies, and space and atmospheric sciences.*



Date Dedicated 2001-11-01
Dedication # 41
Location Arecibo, Puerto Rico
IEEE Regions 9
IEEE section Puerto Rico & Caribbean

Panama - Dedication: 4 April 2003 - IEEE Panama Section

The Panama Canal

The Panama Canal project included one of the largest and most important electrical installations in the world early in the 20th century. The use of 1022 electric motors with an installed capacity of 28,290 horsepower largely replaced the steam and water powered equipment then in common use. Reliability and safety were also engineered into the innovative electrical control system, enabling remote lock operation from a central location.



Date Dedicated: 2003-04-04

Dedication # 48

Location: Balboa, Panama

IEEE Region: 9

IEEE section: Panama

Achievement date range: 1914

Uruguay-Dedication: 14 September 2012

IEEE Uruguay Section

Rincon del Bonete Hydroelectric Plant and Transmission System, 1945

The new IEEE Milestone was nominated and approved in Uruguay, for the "Rincon del Bonete" Hydroelectric Central and its associated Transmission System, that fed most of the country. The construction was much complicated by WW II. It was dedicated December, 14th, as a part of the celebration of the 100 years of the Public Electricity Utility UTE



Date Dedicated: 2012-09-14
Dedication # 132
Location: Rincon del Bonete, Uruguay
IEEE Region: 9
IEEE section: Uruguay
Achievement date range: 1945

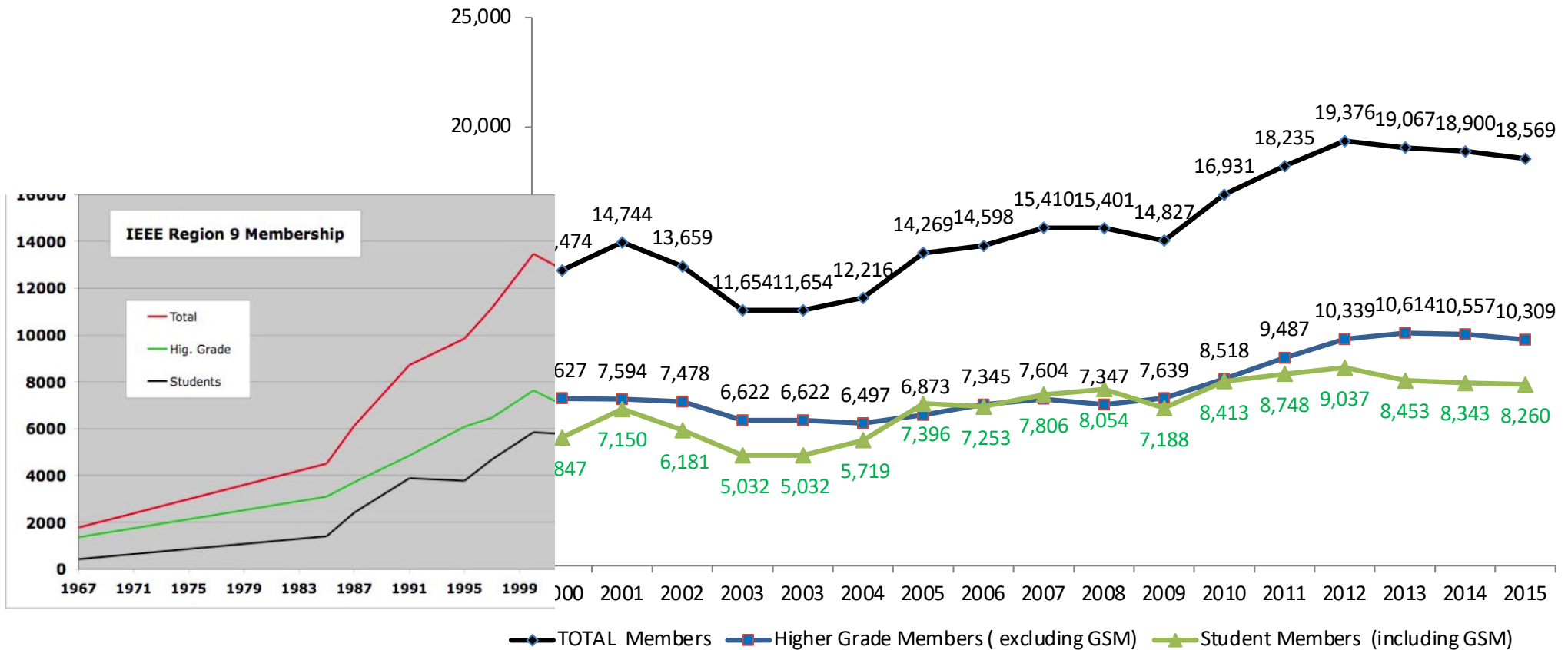
2016: R9 Entities

- **5 Geographic Councils**
- **33 Sections**
 - **10 Subsections**



- **59 Affinity Groups**
 - ***32 YP *19 WIE * 7 LM *1 Consulting Network**
- **453 Student Branches**
- **385 Student Branches Chapters**
- **101 Student Branches Affinity Groups**

IEEE R9 Membership since 1966



For 50 Years, IEEE R9 has positively impacted the life and profession of its members and its communities.....

Join us to celebrate this great event and make IEEE R9 History grow

The next volunteers have contributed to this presentation in different ways

- Carlos Rodriguez (Panama) Book: "Historia de la Region Latinoamericana"
- 1984 Jose Roberto Costa de Lacerda (Brazil) scanned material and information from his own.
- Juan Carlos Miguez (Uruguay) PPT presentation and info from the IEEE History Center
- Manuel Rodriguez Perazza (Puerto Rico), documents.
- Nathan Brewer [Engineering and Technology History Wiki \(ETHW\)](#).