

IEEE Hong Kong Section Report 2016

PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List

The 2016 Hong Kong Section Executive Committee Member List is shown below:

Post	Name of Officer
Chair	George H K Lau
Chair-Elect	William S W Cheung
Hon. Treasurer	Y W Liu
Hon. Secretary	Y W Liu
Immediate Past Chair	Chris Chan
Awards & Recognition	Patrick Liu
Chapter Activities Committee	Stanley Wong
Conference Committee	Edwin Cheung
Educational Activities	Rosanna Chan
External Liaison	Edward Cheung
Industry Relations	Joseph Choy, Laurie Lau
Membership Development	Peter Tam
Newsletter Editor & Webmaster	Y W Liu
Professional & Career Activities	Tim Woo
Public Relations	Ray Cheung
Student Activities	Wilson Chu
Technical Activities	Ricky Lau
CH10012 - Hong Kong Section Chapter, C16	Tak-Lam Wong (Chapter Chair)
CH10112 - Hong Kong Section Chapter, SP01	Lai-Man Po, Yik Chung Wu (Chapter Chair)
CH10200 - Hong Kong Section Chapter, CE08	Robin Bradbeer (Chapter Secretary)
CH10233 - Hong Kong Section Chapter, CPMT21	ChiChuen Lo (Chapter Chair)
CH10267 - Hong Kong Section Chapter,IT12	Kenneth Shum (Chapter Chair)
CH10275 - Hong Kong Section Chapter,PHO36	Sze-Chun Chan (Chapter Chair)
CH10291 - Hong Kong Section Chapter,CIS11	Vincent Tam (Chapter Chair)
CH10322 - Hong Kong Section Chapter,SMC28	James Liu (Chapter Chair)
CH10369 - Hong Kong Section Chapter, EMC27	Kam Chuen LEE (Chapter Chair)
CH10412 - Hong Kong Section Chapter, E25	Kai Tai Tang (Chapter Chair)
CH10476 - Hong Kong Section Chapter,MAG33	Chi Wah Leung (Chapter Chair)
CH10478 - Hong Kong Section Chapter, PSE43	Shu Lun Mak (chapter Chair)
CH10704 - Hong Kong Section Chapter,TEM14	Edwin King Cheung (Chapter Chair)
CH10775 - Hong Kong Section Chapter, CEDA44	Fung Yu Young (Chapter Chair)
CH10013 - Hong Kong Section Jt. Chapter,IE13/PE31/IA34/PEL35	William Y. K. Chan (Chapter Chair)
CH10062 - Hong Kong Section Jt. Chapter, CAS04/COM19	Chak Chung Cheung (Chapter Chair)
CH10118 - Hong Kong Section Jt.Chapter,ED15/SSC37	Wing Man Tang (Chapter Chair)
CH10149 - Hong Kong Section Jt. Chapter, CS23/RA24	Youfu Li (Chapter Chair)
CH10205 - Hong Kong Section Jt. Chap,AP03/MTT17	Hau Wah Lai (Chapter Chair)
CH10366 - Hong Kong Macau Jt. Sections Chapter, EMB18	Feng Wan (Chapter Chair)
GD00007 - Hong Kong Section Affinity Group, YP	Anand Inasu Chittilappilly (Chapter Chair)
WE00007 - Hong Kong Sect Affinity Grp, Women In Engineering	Lieny Jang (Chapter Chair)

Student Branches

University	Name of Officer
STB02211 - Hong Kong Baptist University	QIQUAN SHI (Chair), Joseph Ng (Counselor)
STB05451 - The Open University of Hong Kong	Man Lok Leung (Chair), Kevin Hung (Counselor)
STB05861 - Chinese Univ of Hong Kong	Yuan Pan (Chair), Tan Lee (Counselor)
STB09111 - Hong Kong Univ	Jiangui Li (Chair), S Cheung (Counselor)
STB35691 - Hong Kong City Univ of	VICTOR DIBIA (Chair), Chak Chung Cheung (Counselor)
STB50271 - Hong Kong Univ of Science & Tech	WingShan Chan (Chair), Andrew Poon (Counselor)
STB99211 - Hong Kong Polytechnic	Youwei Jia (Chair), Hon Ngan (Counselor)

- Section Highlights

2016 is a challenging year for the Hong Kong Section. The Section received a very significant increase in membership (from 2,143 in November 2015 to 8,500 in November 2016). Meanwhile, since IEEE members of the Computer, Communications, and Circuits and Systems Societies were eligible to vote in the 2016 Legislative Council Election (Information technology Functional Constituencies), a substantial number of enquiries from members and media were received in 2016.

However, the 2016 Legislative Council Election (Information technology Functional Constituencies) may be one of the reasons for the huge growth in membership in 2016.

- Awards

Due to the substantial increase in membership, the Hong Kong Section received an award on “2016 Outstanding Section Membership Recruitment Performance”.



**2016 Outstanding Section Membership
Recruitment Performance
Hong Kong Section**

A.2 Financial Report

- Summary (as per submitted L50)

Since the Honorary Treasurer and Honorary Secretary resigned from Section in early January 2017, the incoming Honorary Treasurer and Honorary Secretary are now contacting the Honorary Treasurer (2016) for smooth transition. From the Section EXCOM meeting, the Honorary Treasurer (2016) reported that the financial status is healthy.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.

The number of active member in the past 3 years (November 2016, 2015 and 2014) is 8500, 2143 and 2128, respectively.

Total Active Members by Section: Nov 2016									
REGION 10	HIGHER GRADE MEMBERS			STUDENT MEMBERS			TOTAL MEMBERS		
	2016	2015	% Change	2016	2015	% Change	2016	2015	% Change
Hong Kong Section	8,500	2,143	296.6%	490	471	4.0%	8,990	2,614	243.9%

Total Active Members by Section: Nov 2015									
REGION 10	HIGHER GRADE MEMBERS			STUDENT MEMBERS			TOTAL MEMBERS		
	2015	2014	% Change	2015	2014	% Change	2015	2014	% Change
Hong Kong Section	2,143	2,128	0.7%	471	439	7.3%	2,614	2,567	1.8%

The renewal statistics in the past 2 years (November 2016 and 2015) are 1503 and 866, respectively.

Renewal by Section: 2017 Membership Year - Nov 2016											
REGION 10	HIGHER GRADE MEMBERS			STUDENT MEMBERS			TOTAL MEMBERS			2017 Goal	% to Goal
	Opportunity	# Renewal	% Renewal	Opportunity	# Renewal	% Renewal	Opportunity	# Renewal	% Renewal		
Hong Kong Section	8,474	1,503	17.7%	390	77	19.7%	8,864	1,580	17.8%	83.5%	21.3%

Renewal by Section: 2016 Membership Year - Nov 2015											
REGION 10	HIGHER GRADE MEMBERS			STUDENT MEMBERS			TOTAL MEMBERS			2016 Goal	% to Goal
	Opportunity	# Renewal	% Renewal	Opportunity	# Renewal	% Renewal	Opportunity	# Renewal	% Renewal		
Hong Kong Section	2,133	866	40.6%	389	59	15.2%	2,522	925	36.7%	84.5%	43.4%

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

Technical seminars were arranged by Chapters for members in Hong Kong. However, a welcome reception (about two hours) was arranged to all new members in Hong Kong by the Section on 30th July 2016.

B.2 Chapter Activities

- Total number of Chapters in the Section

There are twenty Chapters in the Hong Kong Section.

- Number of Chapters formed in the current year

The Council on Electronic Design Automation (CEDA) was established under the Hong Kong Section in 2016.

- Number of active Chapters (Chapters who have reported required number of meetings during the year)

From the IEEE database, a total of 10 chapters who have reported required number of meetings during the year. However, some chapters may still not yet report all their meeting/activities to the vTools system.

- Summary of Chapter activities (Chapter wise with attachment table/information)

Meeting Date	Meeting Title	Organizational Unit	No. of Attendees			Event Category
			Total	IEEE Member	Non-member	
1/6/2016 18:30	1st Executive Committee meeting of IEEE Hong Kong Chapter of Signal Processing, 2016	SP01	4	4	0	Administrative
1/11/2016 11:00	High-Q Tunable Filters	AP03/MTT17	50	22	28	Professional
1/13/2016 18:30	1st Chapter Meeting (AP/ MTT Joint Chapter)	AP03/MTT17	6	6	0	Administrative
1/15/2016 15:00	Seminar	EMB18 (JT. HONG KONG/MACAU)	13	1	12	Professional
1/15/2016 15:00	An invited seminar on "Many-objective Evolutionary Algorithms for Optimization"	CIS11	40	10	30	Professional
1/15/2016 18:00	2015 4th Chapter Meeting	AP03/MTT17	8	4	4	Administrative
1/15/2016 18:30	The 3rd IEEE AP/MTT Chapter Meeting	AP03/MTT17	4	4	0	Administrative
1/28/2016 14:00	Recent Advances and New Trends in Semiconductor Packaging	CPMT21	40	0	40	Professional
2/2/2016 14:00	Seminar: Monitoring the Weibull Renewal Process	TM14	20	6	14	Technical
2/15/2016 9:00	Arduino Toy Workshop	E25	75	25	50	Technical
2/15/2016 16:00	SYMETA: SYnthesizing 3D METAmaterials for RF, microwave and THz applications	AP03/MTT17	49	23	26	Professional
2/16/2016 12:00	Research Seminar: New Generation Two-wheels Balancing Wheelchair	EMB18 (JT. HONG KONG/MACAU)	20	1	19	Technical
2/16/2016 18:30	1ST EMB HK-MACAU JOINT CHAPTER MEETING 2016	EMB18 (JT. HONG KONG/MACAU)	8	8	0	Administrative
2/25/2016 6:00	CRA Robotics Workshop	CS23/RA24	43	18	25	Technical
2/26/2016 10:00	IEEE Magnetics Society Distinguished Lecture	MAG33	20	10	10	Technical
3/1/2016 15:00	Crystalline resonator based Optoelectronic Oscillators, stabilization and phase noise performance	PHO36	40	20	20	Technical
3/1/2016 15:00	Seminar: Crystalline resonator based Optoelectronic Oscillators, stabilization and phase noise performance by Dr Patrice Salzenstein	PHO36	30	16	14	Technical
3/8/2016 12:00	Research Seminar: Versatile Laser and Optical Amplifier for Ultrafast Imaging Applications	EMB18 (JT. HONG KONG/MACAU)	25	1	24	Technical
3/15/2016 12:00	Research Seminar: Words and Neurons	EMB18 (JT. HONG KONG/MACAU)	40	6	34	Technical
3/17/2016 11:00	DISTINGUISHED LECTURE	SP01	60	10	50	Technical
3/17/2016 19:45	2nd EMB HK-MACAU JOINT CHAPTER MEETING 2016	EMB18 (JT. HONG KONG/MACAU)	8	8	0	Administrative
3/18/2016 18:00	2015 AGM Meeting	AP03/MTT17	6	3	3	Administrative
4/7/2016 14:00	Seminar: Through Life Configuration Management: Nature and Behavior of Change Engineering	TM14	20	6	14	Technical
4/8/2016 18:30	IEEE HK JC Seminar New Multi-Sensor Online Partial Discharge Testing Technologies for Switchgear and GIS	IE13/PE31/IA34/PEL35	147	19	128	Technical
4/14/2016 15:00	Bismuth-doped Fiber Lasers Covering the Spectral Region 1150-1775 nm	PHO36	40	20	20	Technical
4/15/2016 18:30	IEEE HK JC Seminar Power System Simulation	IE13/PE31/IA34/PEL35	98	3	95	Technical
4/19/2016 11:00	Principal Antengenuity and University of Technology	AP03/MTT17	43	18	25	Professional
4/20/2016 11:00	Design of Reflectarrays	AP03/MTT17	36	14	22	Professional
4/22/2016 10:30	Seminar: Threats and Challenges in Dependability of Systems	TM14	20	6	14	Technical
5/16/2016 17:30	Distinguished Lecturer Talk - Demystifying Signal Integrity in High-Speed Designs	EMC27	23	15	8	Technical
5/16/2016 19:05	IEEE HONG KONG SECTION COMPUTER SOCIETY CHAPTER 1ST EXECUTIVE COMMITTEE MEETING 2016	C16	13	13	0	Administrative
5/26/2016 11:00	IEEE Magnetics Society Distinguished Lecture: Prof. Josep Fontcuberta	MAG33	19	4	15	Technical
5/27/2016 10:30	IEEE Magnetics Society Distinguished Lecture	MAG33	16	8	8	Technical

Meeting Date	Meeting Title	Organizational Unit	No. of Attendees			Event Category
			Total	IEEE Member	Non-member	
5/27/2016 19:00	IEEE HK JC Distinguished Lecture Challenges and Trends in Magnetics	IE13/PE31/IA34/PEL35	107	10	97	Technical
6/6/2016 11:00	LECTURE SPONSORED BY IEEE SP HK CHAPTER	SP01	30	0	30	Technical
6/9/2016 14:00	Executive Committee Meeting for Industrial Visit	YOUNG PROFESSIONALS	3	3	0	Administrative
6/14/2016 14:00	Meeting to discuss IEEE R10 SYWL Congress 2016	YOUNG PROFESSIONALS	4	4	0	Administrative
6/18/2016 9:40	Technical Seminar: EMC consideration of the design of repeater/base stations & Harmonic Currents in Power System, the Hazards, and Limits in EN 61000-3-2	EMC27	31	23	8	Technical
6/23/2016 11:00	Wireless Power Transmission based on Retro-reflective Beamforming	AP03/MTT17	34	14	20	Professional
6/27/2016 16:00	Embedded Memory Technology, Applications and Prospects in Embedded Systems & Smart Image Sensors and applications to 3D range-finding	SP01	40	20	20	Technical
7/11/2016 10:30	IEEE Magnetics Society Distinguished Lecture: Prof. Greg P. Carman	MAG33	45	5	40	Technical
7/22/2016 18:30	IEEE HK JC Seminar High Current Contacts " Characteristics, Testing and Applications	IE13/PE31/IA34/PEL35	73	3	70	Technical
7/23/2016 10:00	IEEE HK JC Visit CLP Eco Home	IE13/PE31/IA34/PEL35	23	4	19	Nontechnical
8/5/2016 18:30	IEEE HK JC Seminar Holistic Solution for VVVF Drives	IE13/PE31/IA34/PEL35	180	36	144	Technical
8/16/2016 15:00	Metal and Dielectric Slot resonators: From Physics to Applications	PHO36	40	20	20	Technical
8/20/2016 13:00	Open Forum : From Digital Leadership to Re-industrialization : Innovators meet Entrepreneurs	TM14	350	60	290	Technical
8/23/2016 10:00	High-order Dual-band Superconducting Filter Using Compact Dual-mode Hai-pin Resonator	AP03/MTT17	41	18	23	Professional
8/26/2016 17:00	he Physics and Mathematics of the Signal Propagation Mechanism in Cellular Wireless Communication Systems	AP03/MTT17	36	14	22	Professional
8/29/2016 10:30	Low-cost small smart antennas for wireless communications	AP03/MTT17	46	17	29	Professional
9/6/2016 10:00	On Super-Resolution Imaging and Electromagnetic Metasurfaces	AP03/MTT17	38	16	22	Professional
9/6/2016 16:00	Ultra low-power analog front-end design	SP01	75	35	40	Technical
9/7/2016 11:00	Applications of Multiple-Mode Resonator (MMR) to Cavity Filters and Diplexers	AP03/MTT17	31	10	21	Professional
9/23/2016 12:00	2nd Chapter Meeting (AP/ MTT Joint Chapter)	AP03/MTT17	4	4	0	Administrative
9/23/2016 19:10	IEEE HONG KONG SECTION COMPUTER SOCIETY CHAPTER 2ND EXECUTIVE COMMITTEE MEETING 2016	C16	13	13	0	Administrative
10/11/2016 11:00	Gradient-index metamaterials and spoof surface plasmonic waveguide	AP03/MTT17	25	8	17	Professional
10/26/2016 19:05	IEEE HONG KONG SECTION COMPUTER SOCIETY CHAPTER 3RD EXECUTIVE COMMITTEE MEETING 2016	C16	9	9	0	Administrative
10/31/2016 16:00	From a Different Perspective: Principles, Practice and Potential of Bistatic Radar	AP03/MTT17	29	10	19	Professional
11/8/2016 15:00	Multi-Physical Synthesis of Complex RF Circuits Using Integrated MEMS Devices on a Novel Silicon-Ceramics Compound Substrate	AP03/MTT17	11	4	7	Professional
11/19/2016 9:45	What you need to know on EMC in Railway Systems	EMC27	30	14	16	Technical
11/23/2016 9:00	IEEE HK JC Seminar Smart Energy Storage Conference - Opportunities & Applications	IE13/PE31/IA34/PEL35	228	40	188	Technical
11/25/2016 11:00	THz transmission and radiation research based on SPPs	AP03/MTT17	32	15	17	Professional
11/28/2016 9:00	IEEE HK JC One day workshop HV insulation diagnosis by means of PD detection/ measurement methods	IE13/PE31/IA34/PEL35	73	6	67	Technical
11/28/2016 14:30	Parametric Tunability, Functional Controllability and Systematic Reconfigurability for Smart 5G Wireless and Internet of Things	AP03/MTT17	66	39	27	Professional

Meeting Date	Meeting Title	Organizational Unit	No. of Attendees			Event Category
			Total	IEEE Member	Non-member	
11/28/2016 16:00	Cherenkov Radiation, Tamm Problem and Recent Development (Classical and Quantum Theoretical Study)	AP03/MTT17	59	36	23	Professional
12/2/2016 18:30	The 3rd Chapter meeting	AP03/MTT17	8	4	4	Administrative
12/9/2016 9:00	IEEE Distinguished Lecture: Optics in AlGaAs: Past, Present and Future Prospects	PHO36	60	30	30	Technical
12/9/2016 10:00	The Seventeenth IEEE Hong Kong Photonics Society Postgraduate Conference	PHO36	60	30	30	Technical
12/12/2016 15:00	IEEE Distinguished Lecture: Space-Time Dualities and Temporal Imaging of Optical Waveforms	PHO36	40	20	20	Technical
12/13/2016 11:00	Research Activities at UCA CNRS LEAT	AP03/MTT17	31	13	18	Professional
12/14/2016 10:30	IEEE Distinguished Seminar	MAG33	20	10	10	Technical
12/16/2016 16:30	Microwave Imaging for Brain strokes	AP03/MTT17	45	25	20	Professional
12/16/2016 18:30	IEEE HK JC Seminar Winter Residential Optional Dynamic Pricing: British Columbia, Canada	IE13/PE31/IA34/PEL35	40	8	32	Technical
12/22/2016 11:00	Transformation Optics in Antenna Engineering	AP03/MTT17	38	16	22	Professional
12/23/2016 11:00	Implantable and Wearable Microelectronic Devices to Improve Quality of Life for People with Disabilities	SP01	50	30	20	Technical
12/28/2016 9:00	IEEE Winter Campus	SP01	110	10	100	Nontechnical

B.3 Professional and Continuing Education Activities

Professional and continuing education activities are mainly conducted by individual chapters under the Hong Kong Section. Details of the chapter activities are reported in Section B.2.

B.4 Students Activities

- Total number of Student Branches in the Section

There are seven student branches in Hong Kong Section.

University	Name of Officer
STB02211 - Hong Kong Baptist University	QIQUAN SHI (Chair), Joseph Ng (Counselor)
STB05451 - The Open University of Hong Kong	Man Lok Leung (Chair), Kevin Hung (Counselor)
STB05861 - Chinese Univ of Hong Kong	Yuan Pan (Chair), Tan Lee (Counselor)
STB09111 - Hong Kong Univ	Jiangui Li (Chair), S Cheung (Counselor)
STB35691 - Hong Kong City Univ of	VICTOR DIBIA (Chair), Chak Chung Cheung (Counselor)
STB50271 - Hong Kong Univ of Science & Tech	WingShan Chan (Chair), Andrew Poon (Counselor)
STB99211 - Hong Kong Polytechnic	Youwei Jia (Chair), Hon Ngan (Counselor)

- Number of Student Branches formed in the current year

No new student branches formed in the current year.

- Section level student activities (student congress, paper and other contests, awards etc)

The IEEE Hong Kong Section organized the Undergraduate and Postgraduate Student Paper Contests to encourage IEEE student members in Hong Kong to apply their engineering knowledge to research projects in electrical and electronic engineering and to present their work concisely and coherently.

- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)

The “STB05451 - The Open University of Hong Kong” is very active student branch and organized several events/visits during the year.

B.5 Affinity Group Activities

- Young Professional (YP)

The GD00007 - Hong Kong Section Affinity Group, YP is active and organized several events/meetings during the year.

- Women In Engineering (WIE)

The WE00007 - Hong Kong Sect Affinity Grp, Women In Engineering is very active and organized several events/meetings during the year.

- Life Member

Currently, there is no Life Member Affinity Group under the Hong Kong Section.

B.6 Awards & Recognition Activities

- Award constituted by the Section

Due to the substantial increase in membership, the Hong Kong Section received an award on “2016 Outstanding Section Membership Recruitment Performance”.



**2016 Outstanding Section Membership
Recruitment Performance**

Hong Kong Section

B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year)

Monthly newsletters were sent to all members and available in the Home Page of the Section.

- Home Page of the Section (give the URL and how often it is updated)

The Home Page of the Section (<http://www.ieee.org.hk>) was maintained by the Newsletter and Webmaster of the Section (up to December 2016). The Home Page for the 2017 Session is under construction and will be available soon.

B.8 Industry Relations

- Membership growth and retention

In 2015 and 2016, the Hong Kong Section worked hard in promoting IEEE memberships through industrial outreach.

- Activities for/with industrial members

Technical seminars were co-organized by the relevant Chapters and local companies.

B.9 Humanitarian Technology Activities

No Humanitarian Technology or SIGHT related activities were supported by the Section during the year.

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)”

A welcome reception (about two hours) was arranged to all new members in Hong Kong by the Section on 30st July 2016.

PART C - OTHERS

C.1 Special Events

Not available.

C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)

Not available.

C3. Collaboration with other IEEE Sections

Not available.

C.4 Support extended to Sub-sections & Society Chapters within the Section

The Council on Electronic Design Automation (CEDA) was established under the Hong Kong Section in 2016.

C.5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)

Industry outreach programme.

C.6 Problems anticipated and suggestions for solutions, if any

Since the Hong Kong Section recorded a huge increase in membership during the year, the Section needs a good retention plan (e.g. encourage qualified members to become "Senior Member") in 2017.

The incoming Honorary Treasurer (2017) is now contacting the Honorary Treasurer (2016) for a smooth transition on financial matters.

PART D - GOALS AND PLANS

D.1 Continuation of project/activity in progress and their implementation plans

Not available.

D.2 Goals and Future Plans

1. Organize a networking event to welcome new members
2. Encourage members to elevate to senior member grade
3. Organize industry activities as majority of the new members are from industry

D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.

Organize more technical visits to members.

D.4. Business Plan for Sustainable Growth and Financial Stability.

Implementation of an effective Senior Member Elevation programme.

- END -