

# Region 10 Section Report - 2019 Macau Section

## **PART A - SECTION SUMMARY**

### A.1 Executive Summary – (Please follow the format given below)

- Section Executive Committee Member List
  - ✓ Xiaoju Liu – Chair
  - Chi-Seng Lam - Vice Chair
  - Yaling Wang - Secretary
  - Pedro Antonio Mou – Treasurer
  
- ✓ 2018 Board was elected on Apr 21, 2018.
  
- Section Highlights
  - ✓ Reinforcement/Establishment of collaborative relationship with local associations, Government and companies
  - ✓ Joint Activities with local entities
    - Macau Association of Microelectronics;
    - Science and Technology Development Fund (FDCT);
    - MAPST (The Association for Promotion of Science and Technology of Macau);
    - Information Technology Association;
    - CTT (The Macao Post);
    - Macau electric power company;
    - University of Macau;
    - University of Science and Technology etc.
  
- Major Events (International, National)
  - ✓ IEEE Asia Pacific Power and Energy Engineering Conference (APPEEC) 2019, 1-4 Dec 2019
  - ✓ IEEE Asian Solid-State Circuits Conference (A-SSCC) 2019, November 4-6 2019
  - ✓ 2019 International Conference on Information, Cybernetics, and Computational Social Systems, 27 Sep 2019
  - ✓ "Smart City and Internet of Things" Seminar , 9 Sep 2019
  - ✓ Reinforcement Learning for Efficient and Fair Coexistence of LTE-LAA and Wi-Fi Workshop, 8 Aug 2019
  - ✓ IEEE CAS Seasonal School 2017 Tutorials on Circuits and Systems Selected Topics in Power, RF, and Mixed-Signal ICS, 17 Aug 2019
  - ✓ The Future of Radio Frequency Identification Technologies and its Applications Workshop, 6 Sep 2019
  - ✓ Serve as the Judge of **Communication Museum Electronic Device Construction Competition**, 26 Jan 2019
  
- Major Chapter Activities
  - ✓ PE31/PEL35
    - IEEE Asia Pacific Power and Energy Engineering Conference (APPEEC) 2019
  - ✓ SSC37
    - IEEE Asian Solid-State Circuits Conference (IEEE A-SSCC) 2019
  - ✓ SMC28
    - 2019 International Conference on Information, Cybernetics, and Computational Social Systems
  - ✓ Many contacts with oversea parties.
  
- Major Student and Affinity Group Activities
  - ✓ Student branch
    - Final Year Project Competition
    - MUST Student Branch Pizza Night
    - UM Student Branch ECE Orientation Day
  - ✓ WIE Affinity
    - The Future of Radio Frequency Identification Technologies and its Applications Workshop
    - Reinforcement Learning for Efficient and Fair Coexistence of LTE-LAA and Wi-Fi Workshop

- Awards
  - ✓ R10 best membership retention small section

## A.2 Financial Report – (Please follow the format given below)

- Summary (as per submitted on NetSuite)

Summary of L50 Report ()	Acc. Code	MOP
<b>Receipts</b>		
Received from Corporations (Income)	1.20	88,099.10
Educational Activities (Income)	2.60	5,750.00
Rebate from IEEE HQ	3.10	32,266.60
Region 10 Assessment (Income)	3.16	16,050.20
IEEE HQ & Societies	3.34	24,054.70
<b>Total</b>		<b>166,220.60</b>
<b>Expenses</b>		
Meetings & Social Events Expense	4.10	29,059.20
Professional Activities (Expense)	4.70	32,078.00
Student Activities (Expense)	4.80	18,709.60
Support to Sections/Chapters (Expense)	5.50	9,611.60
Other Management & General Expenses	5.60	4,925.00
<b>Total</b>		<b>94,383.40</b>

- Any other financial activities

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

- Total number of active members in the past 3 years.
  - ✓ 2019: 269
  - ✓ 2018: 206
  - ✓ 2017: 206
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
  - ✓ Technical Conferences, Seminars, gathering etc.
  - ✓ Promote in the new students
  - ✓ Student activities
  - ✓ Cooperation with industry

### B.2 Chapter Activities

- Total number of Chapters in the Section
  - ✓ 9 Chapters:
    - CH10366 Hong Kong Macau Jt. Sections Chapter, EMB18 (07/25/2006)
    - CH10773 Macau Section Chapter, RFID741 (04/20/2016)
    - CH10512 Macau Section Chapter, SMC28 (03/03/2010)
    - CH10484 Macau Section Chapter, SSC37 (06/12/2009)
    - CH10349 Macau Section Chapter, C16 (10/11/2005)
    - CH10530 Macau Section Joint Chapter, AP03/MTT17 (05/18/2010)
    - CH10347 Macau Section Joint Chapter, CAS04/COM19 (08/01/2005)
    - CH10639 Macau Section Jt. Chapter, PE31/PEL35 (04/16/2013)
    - CH10897 Macau Section, IE13 (2019)
- Number of Chapters formed in the current year
  - ✓ 1 chapter - CH10897 Macau Section, IE13
- Number of active Chapters (Chapters who have reported required number of meetings during the year)
  - ✓ 4 chapters
- Summary of Chapter activities (Chapter wise with attachment table/information)
  - ✓ CH10639 - IEEE Asia Pacific Power and Energy Engineering Conference (APPEEC) 2019 (1-4 Dec 2019)
  - ✓ CH10484 - IEEE Asian Solid-State Circuits Conference (A-SSCC) 2019, November 4-6 2019
  - ✓ CH10366

Title	Date	Location
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Biologically Functional Surfaces and Micropatterns: from Superhydrophobicity to Personalized Medicine	31 Oct 2019 12:00 PM	HK, Hong Kong
Asymmetric Interactions in Rehabilitation	29 Oct 2019 12:30 PM	HK, Hong Kong
BME Study Trip for Teacher 2019	23 Oct 2019 08:00 AM	HK, Hong Kong
Microsystems for Personalised Medicine	24 Sep 2019 11:00 AM	HK, Hong Kong
BME summer camp 2019	06 Aug 2019 08:00 AM	Macau, Macau
Student Project Competition 2019	15 Jun 2019 02:00 PM	HK, Hong Kong
SMC Applications of Respiratory Monitoring and Clinical Diagnostic	14 Jun 2019 11:00 AM	HK, Hong Kong
Computational Imaging and Modelling in Osteoporosis	03 Jun 2019 12:00 PM	HK, Hong Kong
Have we reached a game changing era in the treatment of severe spinal cord injury?	22 May 2019 12:00 PM	HK, Hong Kong
Molecular Basis of Synaptopathy " in Neurodevelopmental Disorders	08 May 2019 12:00 PM	HK, Hong Kong
Ovarian Aging and Female Reproductive Health: From Bench to Clinic	06 May 2019 12:00 PM	HK, Hong Kong
Study of MCT1 and CD147 in CNS Health and Disease ; Biosensing to Therapeutics	10 Apr 2019 12:00 PM	HK, Hong Kong
Researches as the 1st Richard Merkin Fellow and Post-fellow of Focused Ultrasound Foundation	27 Feb 2019 12:00 PM	HK, Hong Kong
Targeting the Piriform Cortex As Therapeutic Treatment For Epilepsy	16 Jan 2019 12:00 PM	HK, Hong Kong

✓ CH10512

Title	Date	Location
2019 International Conference on Information, Cybernetics, and Computational Social Systems	27 Sep 2019 12:00 AM	Chongqing, Chongqing Shi
Yunshan Young Scholar Seminar	02 Jul 2019 12:00 AM	Guangzhou, Guangdong

✓ CH10347

IEEE CAS Seasonal School 2017 Tutorials on Circuits and Systems Selected Topics in Power, RF, and Mixed-Signal ICs	17 Aug 2019
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### B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

- ✓ Energy Transformation and Smart Grid Seminar, Date: 28 Nov 2019
- ✓ Technical Visit, Chinese National High DC Voltage Testing Base Chinese State Grid, Date: 7 Dec 2019
- ✓ High Efficient Wireless Power Transfer for Electrical Vehicles Seminar, Date: 12 Dec 2019
- ✓ 19th Anniversary Celebration Lecture of Faculty of Information Technology of MUST, Date: 11 Apr 2019
- ✓ Emerging Technology Seminar, Date: 5 June 2019
- ✓ IEEE CAS Seasonal School 2017 Tutorials on Circuits and Systems Selected Topics in Power, RF, and Mixed-Signal ICS, Date: 17 Aug 2019
- ✓ Smart City and Internet of Things Seminar, Date: 9 Sep 2019
- ✓ Two-day Technical Visit to NanSha, GuangZhou, Date: 21-22 Sep 2019

### B.4 Students Activities

- Total number of Student Branches in the Section
  - ✓ 2
- Number of Student Branches formed in the current year
  - ✓ 0
- Section level student activities (student congress, paper and other contests, awards etc.)
  - ✓ IEEE Project Competitions in universities

- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
  - ✓ 2
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
  - ✓ # 1: MUST Student Branch Pizza Night , Date: 30 Nov 2018
  - ✓ #2: Visit to Greater Bay Area Industry, Date: Feb 2019
  - ✓ #3: MGM Visiting, Date: 23 Feb 2019
  - ✓ #4: MUST Student Branch All Member Meeting, Date: 31 Mar 2019
  - ✓ #5: MUST Student Branch Annual General Meeting , Date: 24 Apr 2019
  - ✓ #6: IEEE Project Competition in 2019, Date: 8 Jun 2019
  - ✓ #7: UM Student Branch FST Orientation Camp (cooperating with other sub-organizations in FST), Date: 7~8 Sep 2019
  - ✓ #8: UM Student Branch ECE Orientation Day, Date: 22 Sep 2019

### **B.5 Affinity Group Activities**

- Young Professional (YP)
- Women In Engineering (WIE)
  - ✓ The Future of Radio Frequency Identification Technologies and its Applications Workshop, Date: 6 Sep 2019
  - ✓ #6: Reinforcement Learning for Efficient and Fair Coexistence of LTE-LAA and Wi-Fi Workshop, Date: 8 Aug 2019
- Life Member (LM)

### **B.6 Awards & Recognition Activities**

- Award constituted by the Section
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
  - ✓ 2019 best membership retention small section

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

- Newsletter (name and number of issues in the year)
  - ✓ 3
- Home Page of the Section (give the URL and how often it is updated)
  - ✓ <http://www.ieee.org.mo/>
- Other means of contacts with Section members including social media
  - ✓ Email, WeChat, WhatsApp

### **B.8 Industry Relations**

- Membership growth and retention
- Activities for/with industrial members
  - ✓ Co-organize seminars with industry
  - ✓ Invite industry to join IEEE conferences
  - ✓ Invite industry to join seminars
  - ✓ Technical seminars for free

### **B.9 Humanitarian Technology Activities**

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
  - ✓ N/A
- SIGHT Activities
  - ✓ N/A

## **B.10 Community Activities**

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
  - ✓ N/A

## **PART C- OTHERS**

### **C.1 Special Events**

- Please briefly describe the importance of special events and the outcomes achieved
- Funding secured from the IEEE and external sources including sponsorships
  - ✓ N/A

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

- Nature of relationship and details of any formal agreement signed
  - ✓ Friend organization
- Details of joint activities
  - ✓ Be invited to join the many activities (such as technical seminars, gathering etc.) they organized
  - ✓ Invite other societies and associations joining our seminars and conferences.
- Benefit to IEEE members (for example discounts, access to technical information etc.)
  - ✓ Keep close communication with local and external experts
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)
  - ✓ Make IEEE Macau section more popular and known by more people

### **C.3. Collaboration with other IEEE Sections**

- Support extended to neighboring Sections
  - ✓ N/A
- Joint activities with any other Section
  - ✓ N/A

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

- Support extended for organizing technical, educational and professional activities
  - ✓ Financial support to chapters and student branch for organizing technical seminars, member gathering, technical project competition etc.
- Joint activities for membership development
  - ✓ Organize activities with students to promote membership development.
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section
  - ✓ N/A

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

- ✓ Hold seminars and activities;
- ✓ Got many contacts with relevant government departments and local societies;
- ✓ Release activities news in news media
- ✓ Set up WeChat groups for management committee, all members

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

- ✓ Limited financial support and income

## **PART D - GOALS AND PLANS**

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

- ✓ N/A

### **D.2 Goals and Future Plans**

- ✓ Continue to organize high-quality technical seminars, workshops, visits etc.

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

- ✓ Keep close communication with members using WeChat group to share information/high-quality activities among members in a prompt way, which can attract members' interests. And members can achieve experts in their territory easily.
- ✓ Hold high-quality seminars, which are offered to members for free, but not free for non-members.

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

- ✓ N/A