

Macau Section Report

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List
Dr. LAO KENG WENG (UM) – Chair
Dr. LI XiaoDong (MUST) - Vice Chair
Mr. CHOI Wai Hei (UM) – Secretary
Mr. Pedro Antonio MOU (UM) – Treasurer

2020 board was elected on 23 May 2020

- 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, CEM;
 - Macau Telecommunication company, CTM
 - University of Macau;
 - University of Science and Technology etc.
- Major Events (International, National)
 - 23 July 2020: Seminar on 5G IoT Technologies and Inauguration Ceremony
 - 15 Oct 2020: Seminar on Smart Public Lighting and 5G-based IoT Technology: Opportunities and Challenges,
 - Sept 2020: Technical visit to Shenzhen, Guangdong electric company in
 - 24 July 2020: 5G SMART CITY IOT TECHNOLOGY Seminar on
 - Jan 2020: Serve as the Judge of Communication Museum Electronic Device Construction Competition,
- Major Chapter Activities
CAS04
 - IEEE CASS MACAU CHAPTER SEMINAR - ENERGY-EFFICIENT AND COST-EFFECTIVE POWER MANAGEMENT ICS FOR IOT DEVICES on 14 Dec 2020
 - 2020 IEEE International Conference on Visual Communications and Image Processing (VCIP) on 1-4 Dec 2020
 - IEEE CASS MACAU CHAPTER AND WUHAN JOINT CHAPTER OUTREACH ONLINE SEMINAR on 10 Dec 2020SMC28
 - 2020 INTERNATIONAL CONFERENCE ON INFORMATION, CYBERNETICS, AND COMPUTATIONAL SOCIAL SYSTEMS on 13-15 Nov 2020IE13
 - IEEE MACAU IES CHAPTER ADMINISTRATIVE MEETING on 12 Nov 2020;
 - INDUSTRIAL PRODUCTS SHOW on 1 Oct 2020
 - IEEE MACAU IES CHAPTER SEMINAR TALK "HYBRID INVERTER TOPOLOGIES IN SMART GRID" on 12 Jan 2020
 - 2020 IES UNDERGRADUATE PROJECT CONTEST on 20 Jun 2020
 - IES POSTGRADUATE PAPER CONTEST 2020 on 15-20 Nov 2020

- IEEE Macau IES Chapter Seminar Talk "Hybrid Inverter Topologies in Smart Grid" on 12 Jan 2020

PE31/PEL35

- ANNUAL GENERAL MEETING on 14 Nov 2020
- Seminar MACAU ELECTRIC POWER HIGH VOLTAGE EQUIPMENT INSTALLATION AND MARKET PROSPECTS on 14 Nov 2020

EMB18

- OPTICAL FOCUSING AND IMAGING OF DEEP BIOLOGICAL TISSUE on 17 Dec 2020
- BME STUDENT PROJECT COMPETITION 2020 on 15 Aug 2020
- CHAPTER EX-COM MEETING on 15 Aug 2020

SSC37

- UNIVERSITY OF MACAU INSTITUTE OF MICROELECTRONICS DISTINGUISHED LECTURE on 14 Dec 2020
- ISSCC 2021 CHINA PRESS CONFERENCE on 20 Nov 2020

- Major Student and Affinity Group Activities
STB37931 - Univ Of Macau & STB66451 - Macau Univ of Science & Tech
 - IEEE Macau Student Branch Project Competition
- Awards

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

- Summary (as per submitted on NetSuite)

For local bank account (MOP),

Acc. Code	Summary of Financial Report (2020)	MOP
	Income	
1.20	Received from Corporations	68,287.90
2.50	Conference Revenue	49,139.50
2.60	Educational Activities	6,000.00
3.10	Rebate from IEEE HQ	27,011.00
3.16	Region 10 Assessment	15,915.20
3.34	IEEE HQ & Societies	39,557.50
3.7	Other Income (Describe)	29,420.00
	Total	235,331.10
	Expenses	
4.10	Meetings & Social Events	(51,750.30)
4.70	Professional Activities	(57,531.06)
4.80	Student Activities	(10,143.78)
4.85	Grants & Awards	(9,055.00)
5.50	Support to Sections/Chapters	(33,183.80)
5.60	Other Management & General	(55,791.00)
	Total	(217,454.94)

- Any other financial activities
For concentration account (USD),

Acc. Code	Summary of Financial Report (2020)	USD
	Income	
1.20	Received from Corporations	0.00
2.50	Conference Revenue	0.00
2.60	Educational Activities	0.00
3.10	Rebate from IEEE HQ	0.00
3.16	Region 10 Assessment	500.00
3.34	IEEE HQ & Societies	0.00
3.7	Other Income (Describe)	0.00
	Total	500.00
	Expenses	
4.10	Meetings & Social Events	0.00
4.70	Professional Activities	0.00
4.80	Student Activities	0.00
4.85	Grants & Awards	0.00
5.50	Support to Sections/Chapters	0.00
5.60	Other Management & General	0.00
	Total	0.00

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
 - 2018: 206
 - 2019: 269
 - 2020: 237
- 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
There are 1, 6 chapters, 3 joint chapters and 2 students branches.
- Number of Chapters formed in the current year
No
- Number of active Chapters (Chapters who have reported required number of meetings during the year)
6 chapters
- Summary of Chapter activities (Chapter wise with attachment table/information)

Title	Date	Host	Location
<u>University of Macau Institute of Microelectronics Distinguished Lecture</u>	14 Dec 2020 11:00 AM	CH10484	<u>Taipa, Macau</u>
<u>IEEE CASS MACAU CHAPTER SEMINAR - ENERGY-EFFICIENT AND COST-EFFECTIVE POWER MANAGEMENT ICs for IOT DEVICES</u>	14 Dec 2020 11:00 AM	CH10347	<u>Macau, Macau</u>
<u>IEEE CASS MACAU CHAPTER AND WUHAN JOINT CHAPTER OUTREACH ONLINE SEMINAR</u>	10 Dec 2020 09:30 AM	CH10347	<u>Macau</u>
<u>ISSCC 2021 China Press Conference</u>	20 Nov 2020 09:30 AM	CH10484	<u>Macau</u>
<u>IES Postgraduate Paper Contest 2020</u>	15 Nov 2020 01:00 PM	CH10897	<u>Macau</u>
<u>Annual General Meeting</u>	14 Nov 2020 07:00 PM	CH10639	<u>Macau</u>
<u>Macau Electric Power High Voltage Equipment Installation and Market Prospects</u>	14 Nov 2020 05:00 PM	CH10639	<u>Macau</u>
<u>IEEE Macau IES Chapter Administrative Meeting</u>	12 Nov 2020 10:00 AM	CH10897	<u>Macau</u>
<u>Smart Public Lighting and 5G-based IoT Technology: Opportunities and Challenges</u>	15 Oct 2020 02:30 PM	R00097	<u>Macau</u>
<u>Industrial Products Show</u>	01 Oct 2020 09:00 AM	CH10897	<u>Macau</u>
<u>Administrative meeting</u>	09 Sep 2020 12:30 PM	CH10639	<u>Macau</u>
<u>Chapter ex-com meeting</u>	15 Aug 2020 12:00 PM	CH10366	<u>Macau, Macau</u>
<u>BME Student Project Competition 2020</u>	15 Aug 2020 10:00 AM	CH10366	<u>Macau & HK, Hong Kong</u>

<u>5G Smart City IoT Technology</u>	24 Jul 2020 06:00 PM	R00097	<u>Macau</u>
<u>2020 IES Undergraduate Project Contest</u>	20 Jun 2020 09:00 AM	CH10897	<u>Macau</u>
<u>Administrative meeting</u>	10 Jun 2020 12:30 PM	CH10639	<u>Macau</u>
<u>Chapter ex-com meeting</u>	03 Jun 2020 03:00 PM	CH10366	<u>Macau, Macau</u>
<u>Annual General Assembly</u>	23 May 2020 10:00 PM	R00097	<u>Macau</u>
<u>Administrative meeting</u>	04 Mar 2020 12:30 PM	CH10639	<u>Macau</u>
<u>IEEE Macau IES Chapter Seminar Talk "Hybrid Inverter Topologies in Smart Grid"</u>	12 Jan 2020 12:45 PM	CH10897	<u>Macau</u>

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

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 Macau Student Branch Project Competition
- 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)
 - 17 Jan 2020: Assistantship in “University of Macau Open Day”.
 - Jun 2020: “IEEE Project Competition 2020”.

B.5 Affinity Group Activities

- Young Professional (YP)
 - NA
- Women In Engineering (WIE)
 - activities suspended due to COVID
- Life Member (LM):
 - NA

B.6 Awards & Recognition Activities

- Award constituted by the Section
 - NA
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
 - Best Small Section Award 2019

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

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

- 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
 - Technical seminars for CPD evaluation

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
 - NA
- SIGHT Activities
 - NA

B.10 Community Activities

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

PART C - OTHERS

C.1 Special Events

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

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
 - NA
- Joint activities with any other Section
 - NA

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

- Support extended for organising technical, educational and professional activities
 - NA
- Joint activities for membership development
 - NA
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section
 - NA

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

PART D - GOALS AND PLANS

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

- **Organizing local flagship events**
 - Annual Science Promotion Seminar
 - Engineering Course and Workshops
- **Membership Communication and Maintenance**
 - Member gathering
- **Co-operating with other local organizations**

D.2 Goals and Future Plans

- **Goals**
 - Establish professional image and promotion of IEEE in Macau
 - Organize international and local science & engineering events
 - Keep members active with IEEE
 - Promotion for new members
 - Nominate seminar member
 - Enhance members' loyalty to IEEE
- **Local chapter/sub-section co-operation**
 - Course, seminar and visit
- **New member recruitment**
 - Open access workshop and seminar which includes IEEE member benefit introduction

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

- Engineering workshop and competition that can be opened and completed by any people
- Workshops and play groups for kids (extremely new generation)

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

- Organize annual flagship events
- Hold international conferences
- Workshops