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 2020

  SMC28
  - 2020 INTERNATIONAL CONFERENCE ON INFORMATION, CYBERNETICS, AND COMPUTATIONAL SOCIAL SYSTEMS on 13-15 Nov 2020

  IE13
  - 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),

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>1.29</td>
<td>Received from Corporations</td>
<td>68,287.90</td>
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<td>2.50</td>
<td>Conference Revenue</td>
<td>49,139.50</td>
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<td>2.60</td>
<td>Educational Activities</td>
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<td>Rebate from IEEE HQ</td>
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<td>3.16</td>
<td>Region 10 Assessment</td>
<td>15,915.20</td>
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<tr>
<td>4.10</td>
<td>Meetings &amp; Social Events</td>
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<td>Professional Activities</td>
<td>(57,531.06)</td>
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<td>4.80</td>
<td>Student Activities</td>
<td>(10,143.78)</td>
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<td>4.85</td>
<td>Grants &amp; Awards</td>
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<td>Other Management &amp; General</td>
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- Any other financial activities
  For concentration account (USD),
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<td>2.50</td>
<td>Conference Revenue</td>
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<tr>
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<td>Educational Activities</td>
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<td>3.10</td>
<td>Raised from IEEE HQ</td>
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<td>3.34</td>
<td>IEEE HQ &amp; Societies</td>
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<tr>
<td>3.7</td>
<td>Other Income (Describe)</td>
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<tr>
<td>4.70</td>
<td>Professional Activities</td>
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<tr>
<td>4.80</td>
<td>Student Activities</td>
<td>0.00</td>
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<tr>
<td>4.85</td>
<td>Grants &amp; Awards</td>
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<tr>
<td>5.50</td>
<td>Support to Sections/Chapters</td>
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<td>5.60</td>
<td>Other Management &amp; General</td>
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<td><strong>Total</strong></td>
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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)

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
<th>Host</th>
<th>Location</th>
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<tbody>
<tr>
<td>University of Macau Institute of Microelectronics Distinguished Lecture</td>
<td>14 Dec 2020 11:00 AM</td>
<td>CH10484</td>
<td>Taipa, Macau</td>
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<tr>
<td>IEEE CASS MACAU CHAPTER SEMINAR - ENERGY-EFFICIENT AND COST-EFFECTIVE POWER MANAGEMENT ICS for IOT DEVICES</td>
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<td>ISSCC 2021 China Press Conference</td>
<td>20 Nov 2020 09:30 AM</td>
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<td>IES Postgraduate Paper Contest 2020</td>
<td>15 Nov 2020 01:00 PM</td>
<td>CH10897</td>
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<tr>
<td>Annual General Meeting</td>
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<td>Macau Electric Power High Voltage Equipment Installation and Market Prospects</td>
<td>14 Nov 2020 05:00 PM</td>
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<td>IEEE Macau IES Chapter Administrative Meeting</td>
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<td>Smart Public Lighting and 5G-based IoT Technology: Opportunities and Challenges</td>
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<td>Macau</td>
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<td>Chapter ex-com meeting</td>
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<td>CH10366</td>
<td>Macau, Macau</td>
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<tr>
<td>BME Student Project Competition 2020</td>
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<td>CH10366</td>
<td>Macau &amp; HK, Hong Kong</td>
</tr>
</tbody>
</table>
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”.

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
  o Co-organize seminars with industry
  o Invite industry to join IEEE conferences
  o Invite industry to join seminars
  o Technical seminars for free
  o 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
  o NA
• Funding secured from the IEEE and external sources including sponsorships
  o 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
  o NA
• Joint activities with any other Section
  o NA

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

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

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

  o Hold seminars and activities;
  o Got many contacts with relevant government departments and local societies;
  o Release activities news in news media
  o 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)


  - Organize annual flagship events
  - Hold international conferences
  - Workshops