

Region 10 Macau Section Report of 2022

(Please replace above heading with your Section name)

* Please use the following format to prepare and submit your Section's annual report to Region 10.

* Please note that the annual reports are used to evaluate the outstanding Sections in the region and reports submitted after the announced due date will not be considered for the award. Please do not include more than 3 photographs and preferably put them on additional pages attached to the report (please delete this paragraph in your report).

* Please try to limit your Section's annual report not more than 15 pages.

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List
 - Chair: Xiaodong LI
 - Vice Chair: Kuai Ho
 - Secretary: Jinyu Tain
 - Treasurer: Pedro Antonio Mou

The above list were elected on April 9,2022
- Section Highlights
 - Reinforcement/Establishment of collaborative relationship with local universities, professional associations, Government and companies
 - Joint Activities with Local Associations
 - CEM;
 - AEM
 - AEEMM
 - Worker Association of CEM and Macau Water;
 - CTT (Direcção dos Serviços de Correios e Telecomunicações);
 - Huawei;
 - IPIM
 - MAPST.
- Major Events (International, National)
N/A
- Major Chapter Activities
4
- Major Student and Affinity Group Activities
6
- Awards
1

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

- Summary (as per submitted on NetSuite)

IEEE_CB (USD)
Bank Balance (2021) 8,054.13
Income 3,442.50
Expenses (10,293.00)
Surplus (Deficit) (6,850.50)
Bank Balance (2022) 1,203.63

BNU (MOP)
Bank Balance (2021) 146,534.76
Income 136,147.50
Expenses (96,152.68)
Surplus (Deficit) 39,994.82
Bank Balance (2022) 186,529.58

Total (MOP)
Bank Balance (2022) 196,158.62
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- Any other financial activities
N/A

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
40-60
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
 - Organize technical activities/visit
 - Student Membership Subsidy Financial Support

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)
 - CH10530 Macau Section Joint Chapter, AP03/MTT17 (05/18/2010)
 - CH10347 Macau Section Joint Chapter, CAS04 (08/01/2005)
 - CH10851 Macau Section Chapter, COM19 (08/01/2005)
 - CH10639 Macau Section Jt. Chapter, PE31/PEL35 (04/16/2013)
 - CH10897 Macau Section Chapter, IE13 (08/01/2005)
- Number of Chapters formed in the current year
0
- Number of active Chapters (Chapters who have reported required number of meetings during the year)
3
- Summary of Chapter activities (Chapter wise with attachment table/information)

- IME Distinguished Lecture: Digital Gate Driver ICs to Automatically Reduce both Switching Loss and Switching Noise in Power Devices, Macau Section Chapter, SSC37, 2022/02/18
- **IME Distinguished Lecture: Design of Supply Modulators for RF Power Amplifier Systems**, Macau Section Chapter, SSC37, 2022/11/17
- 2022 Intelligent Perception and Recognition Online Meeting (Macau and Guangzhou), **Macau Section Chapter, SMC28**, 2022/10/12-2022/10/17
- **Fuzzy Clustering from a Representation Learning Perspective, Macau Section Chapter, SMC28**, 2022/11/25
- IES CHAPTER SEMINAR TALK - "Research on Key Technologies of Hybrid Frequency Wireless Power Transfer System with Active Power Compression Capability", IE13, 2023/01/11
- IEEE MACAU SECTION IES CHAPTER - 2022 UNDERGRADUATE PROJECT CONTEST, IE13, 2022/06/11

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

- Seminar on medical intelligence: opportunities and challenges in an aging society, held by Macau Section and Macau University of Science and Technology, 2022/11/09
- Technical Visit to Zhuhai Yunzhou Intelligent Technology Co., Ltd, 2022/06/18

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)
- 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)
 - UM Project Competition, 2022/06/11
 - UM Open Day, 2022/01/16
 - UM IEEE Student Branch Orientation, 2022/10/11
 - Seminar of Master's Application , MUST Student Branch, 2022-04-08
 - IEEE MUST Student Branch Advocacy and Learning Advance for Students, MUST Student Branch , 2022-10-22
 - Student Member Recruitment, MUST Student Branch, 2022-10-28
 - CPC Team Training for ICPC Contest, MUST Student Branch, From 2022-10 to 2022-12, Every Monday & Wednesday
 - Configuration of Infrastructure for Project(Forum) Developing of Web Group, MUST Student Branch, 2022-11
 - Members' Ability Test and Triage to different groups , MUST Student Branch, 2022-12-04
 - Learning Resources and Commonly-used Technology Sharing for Backend Development ,MUST Student Branch, From 2022-12 to 2023-02, Every weekend

B.5 Affinity Group Activities

- Young Professional (YP)
- Women In Engineering (WIE)
 - Joint Vehicular Localization and Reflective Mapping Based on Team Channel-SLAM, 200/12/04, Macau Section Affinity Group, WIE (WE00097)
 - Self-Evolving and Transformative (SET) Protocol Architecture for 6G, 2022/11/05, Macau Section Affinity Group, WIE (WE00097)
 - Data-Driven Non-orthogonal Random Access for Wireless IoT networks, 2022/06/25, Macau Section Affinity Group, WIE (WE00097)
- Life Member (LM)

B.6 Awards & Recognition Activities

- Award constituted by the Section
N/A
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year

Professor Tam Kam Weng, International STEM Ambassador of IEEE

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

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

B.8 Industry Relations

- Membership growth and retention
N/A
- Activities for/with industrial members
N/A

B.9 Humanitarian Technology Activities

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

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
 - Clean Energy with City Development Contest, joint with CEM, 2022/10/22
 - Celebration of World Telecommunication and Information Society Day, joint with CTT (Macau)
 - Seminar: Contemporary Distinguished Chinese Scholars, joint with MAPST
 - Cross-strait and Hongkong-Macau Innovation Forum, joint with MAPST
 - Promotion to realize of National Double-Carbon policy Forum, joint with AEEMM

- Anniversary Party of Macau Institute of Engineers, held by AEM
- Visit to University of Macau, 2022/10/24
- Visit to Macau University of Science and Technology
- Visit to Macau Polytechnic University,
- As distinguished guest to attend Intelligent power distribution and management forum, held by Worker Association of CEM and Macau Water, 2022/12/13
- As distinguished guest to attend 25th international conference on intelligent transportation systems IEEE ITSC 2022, held by Macau University of Science and Technology, 2022/10/08
- As distinguished guest to attend 14th Aisan conference on Organic Electronics(A-COE), held by Macau University of Science and Technology, 2022/12/07

PART C - OTHERS

C.1 Special Events

N/A

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

N/A

C.3. Collaboration with other IEEE Sections

N/A

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

N/A

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

N/A

C.6 Problems anticipated and suggestions for solutions, if any Shortage of manpower for volunteering work

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

N/A

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

We are continuing to seek help from local industrial companies to sponsor our technical activities, student competition

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

N/A