

Macau Section's Report

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List
2016 Board
Chair: Jianqing LI
Vice Chair: Chi Seng LAM
Secretary: Xiaochen YUAN
Treasurer: Xiaodong LI

2016 Board was elected in March 12, 2016
- Section Highlights
 - Reinforcement/Establishment of collaborative relationship with local associations, Government and companies
 - Technical Support and comments to Macau Government for engineer registration system;
 - Joint Activities with Local Associations
 - SOE Macau;
 - Worker Association of CEM and Macau Water;
 - Macau Science and Technology Association;
 - Macau Facility and Management Association;
 - Transmac - Transportes Urbanos de Macau.
- Major Events (International, National)
Region 10 Power & Energy Society (PES) Chapter Chairs Meeting Melbourne, Australia Monday, November 28, 2016
 - Dr. Man-Chung Wong, as North Representative of IEEE Region 10 PES and Chair of IEEE Macao PES Chapter and Dr. Chi-Seng Lam had participated in the Region 10 PES Chapter Chairs Meeting in Melbourne, Australia in November 28, 2016. The IEEE PES Executive Director, Patrick Ryan and IEEE PES VP for Chapters, Frank C. Lambert also joined the meeting and introduced the IEEE PES, functionalities of IEEE PES Executive Office, PES Chapters, etc. And this R10 PES Chapter Chairs meeting is organized and hosted by Prof. Lalit Goel, the IEEE PES Region 10 Representative.
- Major Chapter Activities
Technical Seminars.
- Major Student and Affinity Group Activities
 - Final Year Project Competition
 - University of Macau Student Branch
 - Macau University Science and Technology Student Branch
 - WIE
 - Gathering
- Awards
2016 Outstanding Section Membership Retention Performance

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

- Summary (as per submitted L50)

Financial Row	Amount
Current Assets	
Bank	
70302 - Banco Nacional Ultramarino MACAU	MOP\$131,746.80
Total Bank	MOP\$131,746.80
Total Current Assets	MOP\$131,746.80
Current Assets Less Current Liabilities	MOP\$131,746.80
Total Assets Less Current Liabilities	MOP\$131,746.80

Long Term Liabilities	
74246 - Reserve Allocation Payable	MOP\$15,041.68
Total Long Term Liabilities	MOP\$15,041.68
Total Assets Less Total Liabilities	MOP\$116,705.12
Capital and Reserves	
Retained Earnings	MOP\$120,322.26
Net Income	-MOP\$3,617.14
Total Capital and Reserves	MOP\$116,705.12

Financial Row	Amount
Sales	
1.20 - Received from Corporations	MOP\$13,000.00
2.10 - Meetings & Social Events	-MOP\$11,000.00
2.50 - Conference Revenue	MOP\$242,654.10
2.80 - Student Activities	-MOP\$51,583.70
Total - Sales	MOP\$193,070.40
Gross Profit	MOP\$193,070.40
Overheads	
4.10 - Meetings & Social Events Expense	MOP\$89,834.07
4.50 - Conference Expenses	MOP\$104,241.70
7.00 - Reserve Allocation Expense	MOP\$2,241.77
Total - Overheads	MOP\$196,317.54
Operating Profit	-MOP\$3,247.14
Other Expenses	
10.2 - Unidentified Expense	-MOP\$370.00
Total - Other Expenses	-MOP\$370.00
Net Profit/(Loss)	-MOP\$3,617.14

- Any other financial activities

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- ✧ Total number of active members in the past 3 years.
30~50
- ✧ Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
 - Technical Seminars
 - Student Membership Subsidy Financial Support

B.2 Chapter Activities

- Total number of Chapters in the Section
8 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)
- Number of Chapters formed in the current year
1 - CH10773 RFID741
- Number of active Chapters (Chapters who have reported required number of meetings during the year)

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

Next generation smart vision sensors for Wireless Camera Network (WCN) Application.

Research directions in Subjective Decision Support System: Case Study on Med.

Power minimization in amplifiers and filters - MACAU CAS04/COM19 CHAPTER

Power minimization in amplifiers and filters - MACAU SSC37 CHAPTER

SURFACE PLASMON SENSORS - MACAU CAS04/COM19 CHAPTER

SURFACE PLASMON SENSORS - MACAU SSC37 CHAPTER

Distinguished Workshop on Analog IC Design - MACAU CAS04/COM19 CHAPTER

Distinguished Workshop on Analog IC Design - MACAU SSC37 CHAPTER

IN VIVO VASCULAR IMAGING TECHNOLOGY RESEARCH AT CREATIS - MACAU CAS04/COM19

IN VIVO VASCULAR IMAGING TECHNOLOGY RESEARCH AT CREATIS - MACAU SSC37 CHAPTER

Can Network Coding Help Bridge the Digital Divide in the Pacific - MACAU CAS. Can Network Coding Help Bridge the Digital Divide in the Pacific - MACAU SSC. Distinguished Workshop on Advanced IC Design- Jul 13 - 14 - MACAU CAS04/COM1.

Distinguished Workshop on Advanced IC Design- Jul 13 - 14 - MACAU SSC37 CHAP.

Distributed Energy Resources for a Sustainable Electric Grid - MACAU SECTION.

Voltage Monitoring IC Design with HV Multiplexer and HV Transceiver for BMS Voltage Monitoring IC Design with HV Multiplexer and HV Transceiver for BMS . Communication Systems in Smart Grids - MACAU PE31/PEL35 CHAPTER

Mixed-Signal Circuits for the Data-Driven World - MACAU CAS04/COM19 CHAPTER

Mixed-Signal Circuits for the Data-Driven World - MACAU SSC37 CHAPTER

Low Power Motion Estimation Specific Instruction-set Processors (MESIP)

Low Power Motion Estimation Specific Instruction-set Processors (MESIP)

Digital Signal Processing: Road to the Future - MACAU CAS04/COM19 CHAPTER

Digital Signal Processing: Road to the Future - MACAU SSC37 CHAPTER

Future Life and Smart Grid - MACAU SECTION

Recent Developments in Visible Light Communication - Applications and SoC

Facilities Management in University of Macau New Campus - MACAU PE31/PEL35

VLSI and Device Technologies Trend in Electronic Industry - MACAU CAS04/CO...

VLSI and Device Technologies Trend in Electronic Industry - MACAU SSC37 CH...

Research and Application on Key Technologies of Operating Robot in Power Sys...

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

Technical Seminars

- ◇ 16 Jun. 2016, “Opportunity and Challenges for Electric Vehicle Charging and Energy Storage in Smart Grid”.
 - By: Professor Chi-Yung Chung (IEEE Fellow), Professor and SaskPower Chair in Power Systems Engineering, Department of Electrical and Computer Engineering at the University of Saskatchewan, Saskatoon, SK, Canada and NSERC/SaskPower Senior Industrial Research Chair in Smart Grid Technologies
- ◇ 08 Jul. 2016, “Study of Impact on High PV-penetrated Feeder Voltage Due to Moving Cloud Shadows”.
 - By: Professor Gary W. CHANG (IEEE Fellow), Distinguished Professor & Dean of Academic Affairs, Department of Electrical Engineering National Chung Cheng University, Taiwan
- ◇ 31 Aug. 2016, “Global Power & Energy Internet Dialogue Industry 4.0”.
 - By: Professor Xiao-Ping Zhang (IEEE PES Distinguished Lecturer), Director of Smart Grid of Birmingham Energy Institute, University of Birmingham, UK
- ◇ 1 Sep. 2016, “Research on Advanced Combined Co-phase Traction Power Supply System and Engineering Application in China”.
 - By: Dr. Minwu Chen, Associate Professor, School of Electrical Engineering, Southwest Jiaotong University, China
- ◇ 12 Dec. 2016, “Technology and Equipment of High Power Electric Energy Conversion and Its Applications”.
 - By: Professor An LUO (A member of the Chinese Academy of Engineering), Director of National Power Conversion Research Center, Hunan University, China
- ◇ 13 Dec. 2016, “Microgrids for Enhancing Resilience, Reliability, & Economics in Smart Cities”.

- By: Professor Mohammad Shahidehpour (IEEE Fellow and A member of the US National Academy of Engineering), Bodine Chair Professor, Director of the Robert W. Galvin Center for Electricity Innovation, Illinois Institute of Technology, Chicago, USA

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)
2 IEEE Project Competitions in 2 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)

B.5 Affinity Group Activities

- Young Professional (YP)
A professional talk
- Women In Engineering (WIE)
2
- Life Member
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 2016
NA

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
NA

B.8 Industry Relations

- Membership growth and retention
NA
- Activities for/with industrial members
NA

B.9 Humanitarian Technology Activities

NA

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
 - ✧ BBQ Gathering
 - On 21st May 2016, IEEE Macao PES &PELS Joint Chapter has organized a BBQ gathering. All participants have a good time and have good exchange.

PART C - OTHERS

C.1 Special Events

NA

C.2 Relationship with National Societies

NA

C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections
- Joint activities with any other Section

Hong Kong

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

NA

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

NA

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

Limited resource in human power

PART D - GOALS AND PLANS

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

NA

D.2 Goals and Future Plans

NA

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

To invite local companies to give financial support each year when we provide their corresponding technical talks or we may arrange a short course for local engineers in order to have stable financial income.