

Mauritius Section

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Section Vitality

Please provide information about the date of last Section elections, date of next elections, and do you have the practice of Vice-Chair becoming the next Section Chair. Section ExCom meetings (list them and provide brief summary if appropriate). List the activities carried out to retain and recruit members and the results obtained.

The last Section elections have been carried out on 24 September 2021 for the term 2022-2023. A new team of volunteers have been elected. The next elections will be organized within 2023 and carried out by the end of the year 2023. The new team is planning a number of events for the coming year.

The Mauritius Section has been active during the past year with a number of events organised together with the two SBs and one Chapter. ExCom meetings were held for the following matters:

Interim Chair, 2021 ExCom Election, R8 Seminar, Section Rebate

R8 Summit, Budget allocation to Std Branches and PES Chapter, Financial procedure, A GM planning, Awards

AGM presentation

Treasurer's Report, MDO Report, Student Branch Activities, Chapter Activities, PES Call for Nominations, ExCom Election Process, Awards

PES Chapter Election / Nomination Committee, Award Ceremony, ExCom Election voting, R8 Seminar

Awards Certificate and Shields, Appointment of new officers, Finalise Budgets for Student Branches, SYP and Chapter, EoY Event

To retain and recruit members, two new SB have been created and the Section will also increase the number of activities so as to sensitize potential members to join.

At the beginning of the year, we were just 117 Members, compared to where we started 10 years back (about 40 members), and I am grateful for starting 2022 on a very positive note with 136 members. We look forward to getting more members in the coming year.

Students

List of Student Branches (SB) in your Section, the newly formed or dissolved SBs, if any since the last meeting reporting (Oct 2020). List the student meetings held and Section activities addressed to Students and Young Professionals.

We have two active SBs, namely the University of Mauritius SB and the University of Technology SB. As from March 2022, the section now has two new student branches namely IEEE Middlesex University Mauritius Campus and IEEE PML. The list of the student meetings is given below.

List of meetings of UoM SB

Event 1: PES Day Webinar 1

Topic: "The Contribution of Gen-Z Engineers in The Realization Of Power System Transformation"

Event 2: Talk on IoT and Smart Home organized by UoM Oracle Club in collab with IEEE UoM SB and IMechE UOM Students' Chapter

Topic: "Internet of Things and Smart home"

Event 3: Remote Sensing in Agriculture organized by UoM Oracle Club in collaboration with IEEE UoM SB and Faculty of Agriculture

Topic: "Remote Sensing on Agriculture"

Event 4: PES Day Webinar

Topic: Renewable Energy in the Clean Energy Revolution

Event 5: PES Day Webinar 3 organised by IEEE UoM SB

Topic: The growing importance of power system flexibility in the Clean Energy Revolution

Event 6: PES Day- Article Writing Competition

Topic: "Challenges Faced by the Clean Energy Sector in Mauritius Further to Covid-19 Impacts"

Event 7: PES Day- Photography Contest

The theme is "Use of clean Energy and being sustainable at home during lockdown".

EEE E-Open Day

List of meetings of UTM SB

- Dissertation Workshop

- IoT Festival session 8- IoT & Cloud edge computing
- IoT Festival session 7 - IoT in Industries
- IoT Festival session 5
- IoT Festival session 4
- IoT Festival session 3
- Meeting for Planning
- IoT Festival session 2
- IoT Festival
- Java Coding Session 3
- Java Coding Session2
- Java Coding Session 1
- Python
- From Dark Web To Crypto
- Traditional vs Agile software Development
- Virtual ICT Campus Recruitment
- Article Writing Competition
- IEEE E-Open Day
- Introduction of IEEE
- Green computing with virtualizing technologies

Affinity Groups

List of Affinity Groups (YP, LM, WiE, SIGHT, etc.), list of SB AGs, newly formed or dissolved AGs/SB AGs, if any since the last meeting reporting (Oct 2020). List the activities intended to support affinity groups.

IEEE Mauritius Section Students and Young Professionals Affinity Group

Chapters

List of Chapters and SB Chapters in your Section, the newly formed or dissolved Chapters, if any since the last meeting reporting (Oct 2020). Indicate how many have reported on time and received rebate. Highlight some of the activities.

The Section has still one Chapter namely the IEEE Mauritius Section – Power and Energy Society and Systems Council Joint Chapter.

Activities

- STABILITY ANALYSIS IN POWER SYSTEM- AN OVERVIEW by Dr Rodolfo De Moura.
 - FROM POWER SYSTEMS TO ENERGY SYSTEMS:- IS THE AGE OF ENERGY MANAGEMENT COMING? by Prof Elahee
 - ENERGY EFFICIENCY IN SMART BUILDINGS THROUGH IOT SENSOR INTEGRATION by Prof. SAIFUR RAHMAN (IEEE Life Fellow)
 - LOW-COST ENERGY EFFICIENCY MEASURES by Dr Ruchi Tyagi and Dr Sudesh Vishwakarma
 - IEEE MAURITIUS PES&SC CHAPTER - PES DAY 2021 EVENT
- Keynote speech 1 - Key policies for promoting Clean Energy Technologies in Mauritius by Dr K Dookayka.
Keynote speech 2 - Accelerating the transformational shift towards low carbon economy through Smart Grid and Clean Energy Technologies by Mr C Dabeedin.
Keynote speech 3 - Energy Management and Sustainability by Dr K Elahee.

The IEEE Mauritius Section – Power and Energy Society and Systems Council Joint Chapter has received the IEEE Region 8 Chapter of the Year 2021 Award in the small chapter category.

Industry

List the activities carried out to foster relations with Industry and the results obtained.

The Section has worked in close collaboration with industry and has invited professionals from industry to deliver talks and webinars and participate in workshops as listed in the above Students and Chapters sections of this report. We look forward to strengthen the collaboration with industry for future activities.

Activities since the last report

Highlight some of the activities in your Section, with special attention to the things that work well, and things that don't, so that your acquired know-how can be used by other Sections.

The main update concerns the organization of the IEEE ICECCME 2021 International Conference-Mauritius. This conference was organised by Aksaray University, Turkey (main sponsor) in collaboration with IEEE Mauritius Section (technical co-sponsor). The International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM2020) was the premier event that brings together industry professionals, academics, and individuals from government agencies and other institutions to exchange information and ideas on electrical, electronic, communication engineering and computing. The conference featured a comprehensive technical program offering numerous technical sessions with papers showcasing the latest technologies, applications and services.

I recall below the list of main continuing initiatives that we consider significant:

- Student Branch general meetings, Chapter meetings, and ExCom meeting as parallel events.
- Industry Distinguished Lectures.
- 3rd International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM)
- IEEE ICECCME 2021 International Conference-Mauritius
- IEEE Day celebration.

Planned activities

Highlight some of the future activities and initiatives in your Section.

We will be sponsoring the 4th International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM 2022) and the 2022 3rd International Conference on Next Generation Computing Applications (NextComp) which will be held in Mauritius. We will also be sponsoring the 2022 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME) to held in Maldives.

How Region 8 can be of help to your Section, members, and activities

List any challenges your Section is facing and what support is required from the Region 8. Please, also, give us your suggestions for agenda items that you want to be discussed during the R8 Committee meeting.

Though limited by the COVID-19 pandemic, there have been several webinars delivered along with 2 international conferences held in Hybrid mode. There has been tremendous effort to set these up and nothing would have been achieved without our volunteers.

Any other issues of interest