

IEEE New South Wales, Australia

PART A - SECTION SUMMARY

A.1 Executive Summary

Section Executive Committee

Chair – Syed Muzahir Abbas

Vice-Chair – Mathew Imhoff

Treasurer – Colin Elston

Secretary – Arifuddin Sohel Mohammed

Section Highlights

- A total of 273 events were held by NSW Section in 202. This is a significant increase over the 148 activities conducting in 2023. The classification of the events is as follows

S. No	Type of Event	Number of events
1	Administrative meetings	49
2	Technical Events	177
3	Non Technical Events	45
4	Professional Events	12
5	Number of IEEE and Non IEEE members attending	4250+

- There are now seven active student branches in each of the major universities. These branches are at Charles Sturt University, University of New South Wales, University of Sydney, University of Technology Sydney, Macquarie University, Western Sydney University, and University of Wollongong, compared to three in 2017. Two new student branches were formed at Melbourne Institute of Technology(MIT – Sydney Campus) and SP Jain college of Management(Sydney Campus).
- Sponsorships were given to student members for getting membership of IEEE and it was well received by the student community.
- Regular release of the quarterly newsletter titled "CIRCUIT".
- Fortnightly luncheons were organized by the IEEE Senior Members group at various locations which served as a good meeting and networking platform for the section member.
- IEEE NSW hosted IEEE President-elect Kathleen Kramer in March 2024.
- The IEEE memberships increased from 2590 to 2717 from year 2023 to 2024 respectively.

Major Events (International, National) in chronological order

The following International and National conferences/events were supported by the NSW section in year 2024.

- 2024 International Conference on Electrical, Computer and Energy Technologies (ICECET) – 25 -27 July 2024 – Sydney
<http://www.icecet.com/home>
- IEEE Electronic Copyright Transfer Report and Packing List Information - 2024 IEEE International Conference on Future Machine Learning and Data Science (FMLDS)
- IEEE Life Members Conference - Austin, Texas, USA - 14-16 April 2024
<https://life.ieee.org/news-events/ieee-life-members-conference/>
- IEEE R10 SYWL Congress 2024 - 29 August 2024 - 01 September 2024 – Japan
- URSI AP-RASC 2025 – 17-22 August 2025 – Sydney
<https://www.ursi.org/event.php?id=408>
- R10 AGM – March 2024 Kuala Lumpur Malaysia
- IEEE R10 SYWL Congress 2024 Tokyo, Japan
- IEEE Convene, Hawaii, USA
- IEEE ANZSCON 2024, New Zealand
- IEEE-HKN Student Leadership Conference, North Carolina, USA
- IEEE NSW UNITE 2024, Sydney, Australia

Major Student and Affinity Group Activities

Student chapter and Affinity group were very active in 2024.

Awards

The AP/MTT Chapter has been awarded with Outstanding Chapter Award by AP society.

Section Awards were presented to volunteers during AGM-2024 for their outstanding support during the year.

Julian G - (IEEE Outstanding Volunteer Award)

Sasha N - (2024 outstanding Volunteer Award)

Bill Solman - New award (Distinguished Service Award)

San M - Certificate Appreciation – R10 Outstanding volunteer Award

IEEE NSW Commendations presented to - Yang Yang, Sara Deilemi, Vijita Abhijit.

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

- Summary (as per submission on NetSuite)

Income and Expenditure 2024 in Australian Dollars

Income Section Rebate from IEEE	\$26,746.50
Other Income from IEEE (RADAR 2023 – Seed Money refund and Surplus)	\$53,373.36
FMLDS Seed Money refund	\$10,000.00
IFEC Marketing Cost refund	\$4293.99
Interest	\$801.41

Total Income for 2024	\$95,215.26
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Expenditure

AGM Dinner 2024	\$4350
UNITE Dinner	\$5775
Travel Support	\$14878.58
Free Student Membership	\$3824.52
Women in Sensors	\$1306.09
Power Plant Trip UOW PES branch	\$837.14
PES/PELS meeting	\$1196
IMS workshop	\$3019.07
PE DL Lunch	\$478.49
Miscellaneous	\$5198.00

Total Expenditure	AU\$40,861.70
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Surplus for 2024	AU\$54,353.56
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PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities Total number of active members in the past 3 years.

31 October 2024 - 2717

31 October 2023 - 2590

31 October 2022 – 2,555

Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

Student Membership is encouraged by the Section, which subsidises (provides a one year free) membership for third and fourth year university students. This is of course intended to encourage students to continue as members when they graduate and the section has been working hard to achieve continuing membership. The student membership offer was very popular and the Committee agreed during the year to increase the number of free positions on offer. The Section continued to identify and encourage qualified Members to upgrade to Senior Members. The effectiveness of the many Section activities described in this report is evident from our membership growth and retention statistics.

B.2 Chapter Activities Chapters in the NSW Section

Chapters in the NSW Section are listed below

- Joint Antennas & Propagation / Microwave Theory and Techniques
- Computer
- Joint Communications / Signal Processing / Oceanic Engineering
- Education
- Engineering in Medicine & Biology
- Joint Photonics / Solid-State Circuits / Circuits and Systems / Electronic Devices
- Joint Power Electronics / Industry Applications / Industrial Electronics
- Power & Energy
- Joint ACT & NSW Geoscience & Remote Sensing (reported through ACT Section)
- Systems, Man and Cybernetics
- Dielectrics and Electrical Insulation
- Vehicular Technology
- Electromagnetic Compatibility
- Instrument & Measurement
- Computational Intelligence
- Vehicular Technology

- CT/BT/PSE
- Sensors Council
- Robotics and Automation

Chapters formed in the current year

Nil.

Active Chapters (Chapters who have reported required number of meetings during the year)

The following is the listing of each chapter and the activities organised by them, it is observed that a few chapters like IM, Sensors, VT, AP/MTT, IE/IA, PE, EMP, CT/BT/PSE, RAS, EMC are very active and organising regular events. However, a few chapters are weak with less than the required number of events per year and they will be encouraged to perform better in the year 2025, A change of guard for this chapter is also under consideration. The list of weak chapters is as follows – Electron Devices(1 event), Computer(1 event), Oceanic Engineering(No events reported), CAS/PHO/SSC(No Events), SMC(No events), DEI(1 Event), CIS(1 Event), SP/COM/OES(2 Events).

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

Distinguished lecture were organised by PES, IMS and Women in Sensors Workshop was organised by Sensors council chapter.

B.4 Students Activities

- 9 Student Branches with active committees, 2 SBs added in 2024
- 28 student branch activities were recorded, but we are aware that a number of events at the student branch chapter level did not get recorded
- Student branches played an active role in supporting all IEEE conferences held in NSW

The following are the details of events organised by the various students chapters and students societies. – The most active SBs are Macquarie, UTS and WSU, whereas CSU, MIT and SP Jain are catching up and hopefully will report good number of activities in 2025.

Name	Total
Charles Sturt University	0
Macquarie University	10
Melbourne Institute of Technology	0
SP Jain School of Global Management	0
Sydney University	2
University of New South Wales - Sydney	0
University of Technology Sydney	8
University of Wollongong	1
Western Sydney University	7

B.5 Affinity Group Activities

The activities organised by each affinity group are listed below. All the three affinity groups have performed very well with LM(18 events), WIE(18 Events) and YP(19 Events). The YP group had conducted only two events in 2024 and with support from section it has conducted 19 events in 2025.

B.6 Awards & Recognition Activities

The IEEE NSW section awards were presented for outstanding volunteer services in AGM 2024.

Julian G - (IEEE Outstanding Volunteer Award)

Sasha N - (2024 outstanding Volunteer Award)

Bill Solman - New award (Distinguished Service Award)

San M - Certificate Appreciation – R10 Outstanding volunteer Award

IEEE NSW Commendations presented to - Yang Yang, Sara Deilemi, Vijita Abhijit.

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

- The NSW Section newsletter Circuit was published three times, in 2024 (March, July and October)

- The home page of the NSW Section <http://sites.ieee.org/nsw/> was updated regularly
- Regular eNotices were sent out by the Section to inform the members of upcoming events.

B.8 Industry Relations Membership growth and retention

We do not have reporting on industry membership, but if this data were available it would be of tremendous benefit to sections. We would appreciate if this data can be added to the monthly membership development report Activities for/with industrial members.

Apart from our technical committees we used the the various International conference organised in 2024 for industry engagement.

B.9 Humanitarian Technology Activities

There were no recorded Humanitarian Technology Activities/ SIGHT programs conducted in 2024. However the section is pleased to report that Mathew Imhoff the Vice Chair of section has been elected as the IEEE Humanitarian Technologies Board Member for the year 2025. With this we expect that the section will be actively involved in IEE HTB activities.

B.10 Community Activities IEEE Social activities (Family day, IEEE day, Engineers Week)”

IEEE Day was celebrated by various student chapters but there was no celebration at the section level. The AGM was concluded with a social dinner. The student branches undertook many social events such as lunch and orientation events.

PART C - OTHERS

C.1 Special Events

UNITE is an annual event of IEEE NSW and it was held at a grand scale in 2024 at Macquarie University on 8 November 2024. There were 90 participants from various chapters and it witnessed technical talks/panel discussions/VTools guidance sessions with four parallel tracks. The event concluded with a sumptuous dinner organised by Syed Abbas.

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

The IEEE NSW has organised two events titled JILS in collaboration with Engineers Australia in February and August 2023.

C3. Collaboration with other IEEE Sections

The IEEE NSW has a joint chapter with IEEE ACT for GRSS society through which a collaborative event are regularly organised.

The SSIT chapter of IEEE NSW is a collaboration chapter with Victoria/Queensland and other sections and has been actively conducting events across Australia.

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

The NSW Section has no sub-sections

Society chapters play an important role and are heavily supported leading to many activities as seen in the chapter summary reports. The NSW Section provides a standard budget allocation of USD 500 to each chapter every year for their use and also provides additional funding for those chapters that request it for worthwhile purposes.

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

The New South Wales Section has embarked on a period of reflection.

The Section committee examined the following three fundamentals, implementing a strategic plan to strengthen:

- 1) section structure (expectations, funding & community)
- 2) membership value (communication, engagement, development & recognition)
- 3) community and technical contribution.

The Section committee meets monthly and at each of the meetings half the time has been dedicated to these reflection activities. One of the most important work was the development of detailed position descriptions for each committee position, different in many ways from typical position descriptions, as they set out a chronological list of activities and seek to provide continuity in implementation of plans.

Student Group Funding

The Section's approach to funding activities by student groups has been changed to stimulate diverse activities within the groups and to reward those that are more active and engage with IEEE opportunities.

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

The IEEE NSW is currently facing a minor challenge of more online events when compared to physical events. The section is encouraging its societies and student chapters to meet physically and organise more physical events. A key challenge is the dormant chapters which are being headed by volunteers who are inactive and are also not ready to be replaced with young blood. The section is planning to take this challenge head on and work closely with inactive volunteers and request them to hand over the reins of the chapter to eligible active volunteers.

PART D - GOALS AND PLANS

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

Nil

D.2 Goals and Future Plans

A strategic plan has been created and has begun the process of being approved and implemented. The strategic plan is based on improving: " section structure (expectations, funding & community) " membership value (communication, engagement, development & recognition) " community and technical contribution.

Our plans and progress can be found here: <http://sites.ieee.org/nsw/nsw-section-strategic-plan/>

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

The technical societies play the biggest role in recruitment and value of IEEE membership. Some are doing a great job, others are doing no more than simply organising conferences with the weight of value falling on Sections with little financial support.

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

As mentioned in D2 a strategic plan has been developed and approval and implementation of the plan has begun.