

## **PART A - SECTION SUMMARY**

### **A.1 Executive Summary**

#### ***Section Executive Committee***

Chair – Karu Esselle

Vice-Chair – Ray Brown

Treasurer – John Ypsilantis

Secretary – John Aitken

#### ***Section Highlights***

- NSW Section received the IEEE Outstanding Member Retention and Outstanding Recruitment and Retention Performance Awards.
- Roy B V B Simorangkir from Macquarie University received the Region 10 Postgraduate Student Paper Competition First Prize.
- The IEEE Sections Congress 2017 was held in Sydney, with about 1300 delegates attending.
- IEEE NSW Section hosted ANZSCON 2017 at UTS Sydney and was very successful with about 150 delegates and included a Harbour Cruise that was well attended.
- The Australia Council congratulated all the organisers of ANZCON 2017 including the Chair Raheel Hashmi for the excellent organisation and quality of the Conference.
- There was significant Funding from IEEE R10 for ANZSCON and the IEEE President and Region 10 Director attended the event.
- In August 2017 the NSW Section hosted the Golden Jubilee (50th Anniversary) of IEEE Region 10.
- There was a Fellow Event which was hosted by Business Events Sydney.
- The NSW Young Professionals had several events during the year.
- New volunteers were added to the NSW Women in Engineering Affinity Group committee. There will be an Australia-wide WIE Forum in 2018.
- NSW Section applied for and received significant funding from Region 10 for several NSW Section projects.
- NSW Section bid for and won the right to hold TENSYPMP 2018 in July 2018.

#### ***Major Events (International, National)***

- IEEE NSW Section hosted ANZSCON 2017 at UTS Sydney
- In August 2017 the NSW Section hosted the Golden Jubilee (50th Anniversary) of IEEE Region 10.
- The IEEE Sections Congress 2017 was held at the International Convention Centre, Sydney
- NSW Section bid for and won the right to hold TENSYPMP 2018 in July 2018.

#### ***Major Chapter Activities***

- PES Chapter technically co-sponsored the Conference on the Integration of Distributed Energy Resources (CIDER 2017), with participants from all over Australia and a few other countries.

#### ***Major Student and Affinity Group Activities***

- Substantial funding, resources and focus was placed on ANZSCON 2017 (student, YP and WIE) and this event was very well attended and produced outcomes that are being worked on in 2018.

#### ***Awards***

- NSW Section received the IEEE Outstanding Member Retention and Outstanding Recruitment and Retention Performance Awards.
- Roy B V B Simorangkir from Macquarie University received the Region 10 Postgraduate Student Paper Competition First Prize.
- Macquarie University IEEE Student Branch won first Prize in the Australia Council Student Branch Awards.
- A team of University of Wollongong 1st Year Students won 1st Place for Australia in IEEEExplore (32nd in the World)

## A.2 Financial Report

Please refer to NetSuite for detailed financial information. The Section is in an excellent financial position with substantial reserves and ample funding for Section and Chapter activities, with funds in excess of AU\$170,000 as at 31 December 2017. Conferences continue to provide a good source of income.

The efforts initiated in 2016 to improve budgeting processes and to provide greater financial transparency and reporting were continued in 2017.

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

**Total number of active members in the past 3 years.**

- 31 December 2015 2,751 + 92 (affiliates) = 2843
- 31 December 2016 2,683 + 82 (affiliates) = 2765
- 31 December 2017 2,805 + 79 (affiliates) = 2884

**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 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 twice during the year to increase the number of free positions on offer.

The NSW Section provided Student Support for ANZSCON.

The Section continued to try to identify and encourage qualified Members to upgrade to Senior Members.

### B.2 Chapter Activities

**Chapters in the NSW Section**

- 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

### ***Chapters formed in the current year***

A new chapter of the IEEE Instrumentation and Measurement Society was formed on 22 June 2017, with founding chair Prof. Subhas Mukhopadhyay of Macquarie University.

A new chapter of the IEEE Computational Intelligence Society was formed on 4 April 2017, with founding chair Prof. Jie Lu of University of Technology Sydney.

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

All Chapters reported the required number of meetings in 2017, except the DEIS Chapter (1 technical meeting), SMC Chapter (1 technical meeting), VT Chapter (1 technical meeting) and the CIS Chapter (1 technical meeting and one social event).

### ***Chapter Activities***

Please refer to the attached summary of Section Activities.

## **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**

There were 57 continuing educational activities during 2017. They consisted of

- 2 Conferences
- 39 Lectures
- 16 Professional meetings, site visits and workshops.

Please refer to the attached listing of Section Activities for details, where these activities are identified.

## **B.4 Students Activities**

- 7 Student Branches
- 1 new Student Branch at the University of Technology Sydney
- Section level student activities (student congress, paper and other contests, awards etc)
  - ANZSCON = 32 participants
  - Australia Council Paper awards = 16 participants with the winner from NSW
  - IEEE Xtreme = 15 teams with best ranking of 32<sup>nd</sup> in the world and 1<sup>st</sup> in Australia
- Only four are currently active. Universities are moving to their own funded society models and this is causing problems that will need investigation in 2018
- Student Branches were involved in a variety of activities including industry presentations, technical workshops, volunteering at Sections Congress activities. Student Branch activities can be seen in the attached table at the end of this document (Work needs to be done to ensure they report all events in vTools).
- Sponsored the papers competition in the 2017 University of Sydney Faculty of Engineering & IT Annual Postgraduate Research Conference on 22 February 2017.
- Sponsored the IEEE 3 minutes thesis competition in Macquarie University.

## **B.5 Affinity Group Activities**

- Young Professional (YP)
- Women In Engineering (WIE)
- Life Member

All three affinity groups held several activities in 2017, these are identified in the Section Activities table.

The WIE Affinity Group added new and additional committee members in 2017 and was more active through the year.

## B.6 Awards & Recognition Activities

- NSW Section received the IEEE Outstanding Member Retention and Outstanding Recruitment and Retention Performance Awards.
- 2017 PES Chapter Outstanding Engineer Award recipient – Prof Danny Sutanto, Professor of Power Engineering, School of Electrical, Computer and Telecommunications Engineering from the University of Wollongong.
- Macquarie University IEEE Student Branch won first Prize in the Australia Council Student Branch Awards.
- Roy B V B Simorangkir from Macquarie University received the Region 10 Postgraduate Student Paper Competition First Prize.
- A team of University of Wollongong 1st Year Students won 1st Place for Australia in IEEEExplore (32nd in the World).

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

- The NSW Section newsletter *Circuit* was published three times in 2017 (March, July and October)
- The home page of the NSW Section <http://sites.ieee.org/nsw/> was updated regularly in 2017, as required when new events needed to be advertised.
- eNotices were sent out on a regular basis, typically monthly.

## B.8 Industry Relations

### Membership growth and retention

We do not have reporting on industry membership, but if this data was available it would be of tremendous benefit to sections

### Activities for/with industrial members

The NSW Section had two workshops and two site visits during the year, directly associated with industry activities. The Section Committee has strong representation from industry, with three of the four Section Executive members being employed in industry. The NSW Section lecture programs are strongly aligned with industry interests, an approach that is facilitated by our joint activities with Engineers Australia and the IET. A delegation of three industry members presented at the Wollongong Student Branch to discuss the benefits of being an IEEE member.

## 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)”

There were six social activities during 2017. The details are identified in the attached summary of Section Activities.

## **PART C - OTHERS**

### **C.1 Special Events**

No specific events during 2017.

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

No specific activities to report during 2017. Most such activities are co-ordinated by the IEEE Australia Council.

### **C.3. Collaboration with other IEEE Sections**

Through the Australia Council we are able to cross advertise activities and run competitions across all sections. NSW contributed the SAC and Treasurer as committee members of the Australia Council in 2017, as well as the NSW Section Chair as our representative on the Council.

Two NSW Section members attended the Region 10 and Australia Council meetings in Japan in March 2017, with the second attendee funded by the NSW Section.

The 2017 NSW Section Vice Chair has taken the lead within the Australia Council for the International Registration Project. He was invited to Melbourne in November 2017 to address the Victorian Section on the issue. This helped develop some useful links between the two Sections. He also participated in a teleconference with the South Australian Section on the same issue.

The NSW Section funded 13 members to attend Sections Congress 2017 in Sydney. This enabled these members to have a much greater interaction with the IEEE than would otherwise be the case.

### **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 to each chapter every year for their use and also provides additional funding for those chapters that request it for worthwhile purposes. The NSW Section provided more than AUD\$12,000 of funding directly to chapters in 2017.

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

Nothing specific to report in 2017.

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

University funded societies are having an impact on professional organizations such as the IEEE Student Branches. The university strategic policies are making many of the benefits of IEEE membership irrelevant for undergraduate students. Adding to this other major competitor organisations like Engineers Australia provide free student memberships. Under the current scenario, current fees paid by IEEE undergraduate student members is risking the future growth of IEEE in Australia.

## **PART D - GOALS AND PLANS**

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

Through the Australia Council all sections have made progress on working together to support WIE and one major activity is a WIE forum to be implemented in 2018

### **D.2 Goals and Future Plans**

A new section chair and vice-chair have been elected in 2018 to provide a new direction. 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

### **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. The societies need to be more active and support opportunities for Sections and this can be something as simple as organising webinars that people can attend from anywhere in the world.

### **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.



The following activities were conducted in 2017:

1. Chapter annual general meeting and committee election planned on 16/11/2017
2. Planned DL by Carey M. Rappaport, USA, on Multifocal Bootlace Lens Design Concepts
3. Planned DL by Mona Jarrahi, USA, on New Frontiers in Terahertz Technology
4. Lecture by Prof. Kazuya Kobayashi, Japan, on Radar Cross Section of a Finite Parallel-Plate Wave-guide with Material Loading
5. DL by Naoki Shinohara, Japan, on Current research and development of wireless power transfer via radio waves and the applications
6. DL by Tian-Wei Huang, Japan, on 5G millimeter-wave 1024-QAM gigabit transceivers with digitally-enabled “smart” functions
7. DL by Tapan Sarkar, USA, on The physics and mathematics of electromagnetic wave propagation in a cellular wireless environment
8. Technical workshop by Mandar Gujrathi, Mathworks Inc., on Antenna Design using MATLAB
9. Technical workshop by Thomas Benke, LEAP Australia, on ANSYS Electronics Desktops Hands-On

**Karu Esselle** – Chapter Chair 2017

**Raheel Hashmi** – Chapter Secretary 2017

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## IEEE NSW Circuits & Systems, Photonics, Solid-State Circuits & Electron Devices Joint Chapter

The following activities were carried out during 2017:

- Technical visit to Huawei Datacentre.
- IEEE Photonics Society Distinguished Lecturer Talk - Professor Robert Boyd, “Quantum Nonlinear Optics: Nonlinear Optics Meets the Quantum World”
- IEEE Smart Cities Seminar: Enabling Technologies
  - Smart Barangaroo - Lendlease
  - IoT Devices and Sensors – Steve Dalton, Refractor
  - Smart Lamp Posts – Bill Marlow, VRT
  - RF connectivity for IoT – Dr Graham Smith, Omnivide
- IEEE Solid-State Circuits Society (SSCS) Distinguished Lecturer Talk - Prof Woogeun Rhee, “Phase-Locked Frequency Synthesis and Modulation for Modern Wireless Transceivers”
- Facilitated lab tours and company visits for the IEEE Photonics Society officers from the US as part of global outreach activity.

**Ediz Cetin**  
Chapter Chair

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## IEEE NSW Communications, Signal Processing and Ocean Engineering Joint Chapter

Committee and general meetings were carried out mostly electronically. One meeting was held at Foxtel (IoT) with vice-chair Stephen Joyce. Other meetings were held at events attended by committee members

The following activities were carried out in 2017.

- DLT Dr. Ali C. Begen on Scaling Adaptive Streaming Systems with Network Support
- DLT Josiane ZERUBIA, INRIA, France - Marked Point Processes For Object Detection and Tracking in High Resolution Images: Applications to Remote Sensing and Biology
- OE Event “The Science of Sound” by Dr Brian Ferguson
- UOW Student Presentation – “Stand out of the Crowd – Industry Leadership, Consultancy & Trends”
- Two new Senior Members Sponsored
- Standards Committee Activity: Standards Australia and IEC62676 Meetings 21st to 23rd June
- IoT Workshop – September 2017 – EA Chatswood.
- Presented at ANZSCON – “Smartcities”
- SmartCities initiative – started group in Collabratec to discuss and upload information on all initiatives undertaken to date.
- Meeting to discuss new committee 2018 as follows;
  - a) Chairman : Stephen Joyce
  - b) Vice Chairman : Lionel Ascone
  - c) Treasurer Secretary : Sherry Moghadassi
  - d) other members to be inducted at next meeting.

**Ollencio D’Souza**  
Chair 2017

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## Education Activities Committee

During 2017 we developed our relationship with the Annual National Science Week programme, and attended the launch of the Science Week Expo at the Australian Museum. It is expected that we shall participating in this 2 week Expo activity in 2018 if enough IEEE personnel are available.

The Sections Congress 2017 was listed as an activity within the National Science Week programme, together with other conferences at the time.

Due to our heavy commitment to staffing/ participating in the Sections Congress 2017, and other activities at about the same time, we did not actively participate in any other Science Week activities.

We continue our discussions with the CSIRO Mathematics in Schools programme, where hopefully we will be able to jointly carry through some activities in years to come.

## Education TISP/TSSP with School Teachers

In 2017 we participated in 4 school teacher conferences where we conducted workshops, presentations and discussions with School Teachers, making them aware of the free material provide for STEM education in schools by the Education Activities Board of the IEEE.

Due to personnel commitments to other IEEE activities, including the Sections Congress 2017, we were obliged to decline to participate in a further 3, however it is hoped that in 2018 enough personnel will be trained and available for the NSW Section to have a presence at all of those activities to which we are invited.

The NSW Section was awarded USD 250 from Region 10 to financially assist the Section in their TISP/TSSP activities.

**Dr Graeme Gwilliam**

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## IEEE Education Society, NSW Chapter

### 2017 Committee

Chapter Chair - Sasha Nikolic  
 Vice Chair - Christian Ritz  
 Past Chair - Jun Shen  
 Secretary - Montse Ros  
 Women in Engineering Education - Sudipta Chakraborty  
 Sessional Teaching - Jacob Donley  
 General Member - Graeme Gwilliam

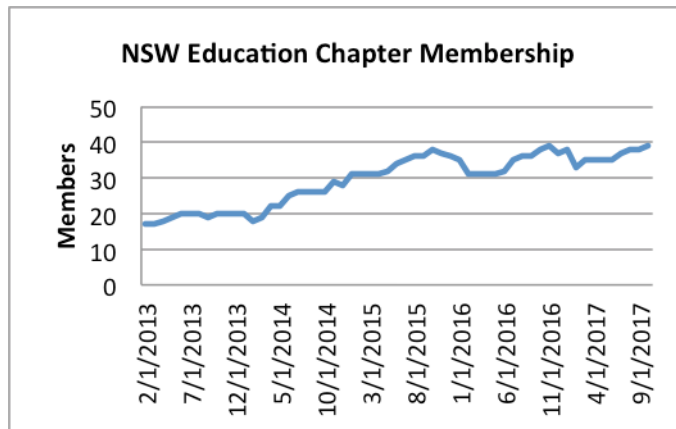
### 2017 Activities

- 17th of May 2017 - Webinar "IEEE Membership, promotion to Senior member and Fellow" (Organised by the IEEE Education Society)
- 22nd of May 2017 - Webinar on publishing in AJET
- 6th of July 2017 – NSW Casual Teacher Forum at UTS
- 16th of November 2017 – Chapter AGM

### 2017 Member Opportunities

- Rebate to attend AAEE Winter School (no takers)
- Rebate to attend IEEE FIE or TALE conference (no takers)
- Education Society MOOC: Open Education and OERs Repositories

### Membership



## IEEE Instrumentation & Measurement Society – NSW Chapter

### 2017 Activities

- July 20: Opening of the Chapter
- July 20: DL talk by Dr. Andrew Taberner, DL of IEEE IMS, Talk Measurement and Instrumentation at the Tissue: Machine interface.
- October 9: Committee Meeting
- November 16: FYP Project Demonstration at Macquarie University

### Planned activities for the rest of the year

November 22, 2017: Workshop, Macquarie University, 9:30am to 4:30pm  
 November 22, 2017: Committee meeting  
 November 29, 2017: Technical Talk by Prof. Norbert Schwesinger <schwesinger@tum.de> title Energy harvesters as power supply for sensors and sensor networks at Macquarie University  
 December 4 to 6, ICST 2017 at Macquarie University  
 December 6, 2017: DL talk by Dr. Octavian Polsolache at Macquarie University  
 December 7, 2017: DL talk by Dr. Octavian Polsolache at UTS.

## IEEE Power and Energy Society – NSW Chapter

### 2017 Committee

Chapter Chair – Georgios Konstantinou

Vice Chair – Ray Brown

Past Chair – Ray Brown

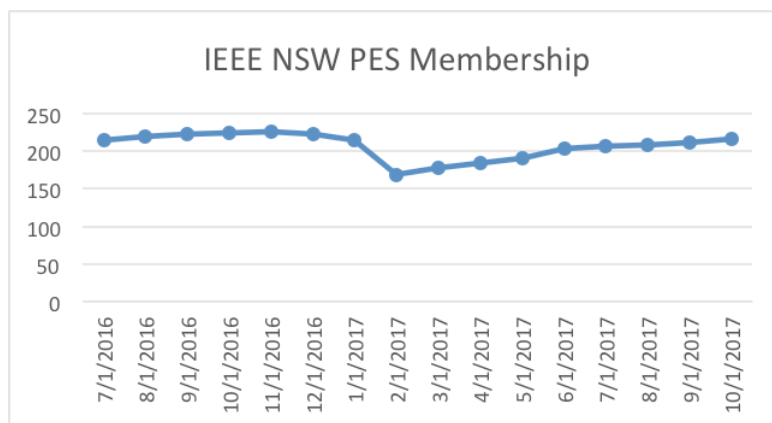
Secretary – Wei Zhao

### 2017 Main Activities

- 23 March 2017 Improving the National Electricity Market design in the light of recent experience.
- 6 June 2017, Lightning Phenomena, Effects and Protection
- 16-17 August 2017: Technical Co-sponsorship of CIGRE CIDER 2017
- 15 August 2017: Distinguished Lecture, UNSW Sydney, Wanda Reder on “Approaches and Lessons Learned for a Comprehensive Reliability Improvement Effort”
- 15 August 2017: A conversation with Wanda Reder for Women in Engineering
- 21 November 2017: Distinguished Lecture, Saifur Rahman on “IoT Sensor Integration from Smart Buildings to the Smart Grid”

Chapter Outstanding Engineer Award: Prof. Danny Sutanto *for contributions to power system analysis and power engineering education*

### Membership



## Society on Social Implications of Technology (NSW)

SSIT Australia had a very busy 2017, including hosting our flagship conference, the International Symposium on Technology and Society, in Sydney in August. ISTAS itself was a great event, with many international speakers including those who were attending IEEE’s Sections Congress, a three-yearly global event with 1,250 attending. SSIT organised 10 separate activities at Sections Congress on a wide range of topics related to ethics, public policy, and technology and society.

The year’s activities commenced in February with our annual planning meeting, with activities projected for Sydney, Melbourne and Brisbane (only Sydney activities are included in this report). SSIT President Paul Cunningham toured several Australian cities in August (including in Sydney), speaking on technology and sustainable development. Paul was a keynote at the ISTAS conference in Sydney. Prior to the conference Katina Michael from the University of Wollongong hosted the 10th Workshop on the Social Implications of National Security in Sydney. The focus was Biometrics and Regulation. This was a well-attended event, continuing the examination of national security in its social context.

SSIT volunteers continue to participate on international IEEE initiatives and standard-setting.

**Greg Adamson**



## Young Professionals Affinity Group

### 2017 Activities

- Workshop on Environment and Energy: Robust chemical sensors for monitoring of hydrocarbons dissolved in water – Mohsen Asadnia & Mathew Myers, Senior Research Scientist, CSIRO Energy, Australia
- Seminar on Intellectual Property: Portfolio development by transitioning technology into commercialisation – Martin Friedgut, Senior Associate/Patent Attorney, Spruson & Ferguson, Australia
- Australia New Zealand Student and Young Professionals Congress (ANZSCON) 2017 – Some key activities included:
  - Keynote on Student to Young Professional Transition – Nirmal Nair
  - Keynote on Engaging with IEEE SIGHT – Simay Akar
  - Keynote on Getting the most out of IEEE membership – Zia Ahmed
  - Keynote by R10 Director & IEEE President – Kukjin Chun & Karen Bartleson
  - WIE Workshop and Panel Discussions
  - 10 distinct focus sessions on student, YP and WIE themes
- Young Professionals Meetup and ANZSCON Dinner on Sydney harbour cruise. Flagship event of the year, attended by 165 guests overall.
- IEEE SIGHT special training for trainers: a joint activity with ANZSCON.
- Committee meetings:
  - March 2017 – e-Meeting
  - July 2017 – Carlingford Court, Carlingford, NSW
  - September 2017 – Telephonic meeting

### 2018 Committee

Chair: Syed Abbas, CommScope, Sydney

Vice Chair: Raheel Hashmi, Macquarie University, Sydney

Secretary: Balakrishna Sarma, Vertical Telecom, Sydney

Treasurer: Naila Mukhtar, Sydney

### Raheel Maqsood Hashmi

Chair, 2017

## 2017 Section Activities

Date	Type	Description	Location	Organisational Unit
6/2/17	Meeting	NSW Section Meeting February 2017	Gore Hill	Section
9/2/17	Lecture	Radar, from Urban Sensing to Elderly Care	UNSW	SP01/COM19/OE22
18/2/17	TSSP / TISP	Science Teachers Conference	Macquarie Uni	Section
22/2/17	Professional	University of Sydney Faculty of Engineering & IT Student Research Conference	Uni of Sydney	Section
23/2/17	Lecture	Transformers from Faraday to the Future. What's New?	EA Chatswood	IE13/IA34/PEL35
2/3/17	Site Visit	Huawei Datacentre	Sydney	CAS04/PHO36/SSC37/ED15
3/3/17	Lecture	Current Research and Development of Wireless Power Transfer via Radio Waves and the Applications	Macquarie Uni	AP03/MTT17
5/3/17	Social	Life Members Social Gathering	Kiama	Life Members
6/3/17	Meeting	NSW Section Meeting March 2017	Gore Hill	Section
8/3/17	Lecture	Antenna Design Using MATLAB	Macquarie Uni	AP03/MTT17
9/3/17	Lecture	IoT and WSN for Health and Home Management	EA Chatswood	SP01/COM19/OE22
13/3/17	Lecture	Quantum Nonlinear Optics: Nonlinear Optics Meets the Quantum World	Uni of Sydney	CAS04/PHO36/SSC37/ED15
14/3/17	Professional	Fellows Night Lecture and Dinner with BES and ICC	Sydney	Section
23/3/17	Lecture	Improving the National Electricity Market Design in the Light of Recent Experience	EA Chatswood	PE31
29/3/17	Lecture	Scaling Adaptive Streaming Systems with Network Support	EA Chatswood	SP01/COM19/OE22
1/4/17	TSSP / TISP	Mathematics Association of NSW, K-8 Conference	Bankstown	Section
3/4/17	Meeting	NSW Section Meeting April 2017	Gore Hill	Section
5/4/17	Professional	UNSW Electrical Engineering and Telecommunications Industry Night	UNSW	Section
6/4/17	Lecture	Introduction to Intellectual Property	Macquarie Uni	YP
20/4/17	Lecture	5G Millimetre-wave 1024-QAM Gigabit Transceivers with Digitally-enabled "Smart" Functions	Macquarie Uni	AP03/MTT17
27/4/17	Lecture	Active Medical Devices	EA Chatswood	EMB18
27/4/17	Lecture	IEEE Smart Cities Seminar: Enabling Technologies	Sydney CBD	CAS04/PHO36/SSC37/ED15
27/4/17	Meeting	UTS Student Branch AGM	UTS	SB UTS
1/5/17	Meeting	NSW Section Meeting May 2017	Gore Hill	Section
8/5/17	Professional	Presentation to IEEE UoW Student Branch	Wollongong	SB UoW
17/5/17	Professional	IEEE Membership, Promotion to Senior Member and Fellow	Webinar	E25
21/5/17	Social	Life Members Social Gathering	Sydney	Life Members
22/5/17	Professional	Publishing in Australian Journal of Educational Technology	Webinar	E25
25/5/17	Lecture	Rollingstock In-cab Signalling - Human Factors and the Major Learnings from Other Projects	EA Chatswood	VT06
5/6/17	Meeting	NSW Section Meeting June 2017	Gore Hill	Section
6/6/17	Lecture	Lightning Phenomena, Effects and Protection	Wollongong	PE31
8/6/17	Lecture	Enterprise Data Wrangling	EA Chatswood	CIS11
22/6/17	Lecture	Standards for Video Surveillance	EA	CE08/BT02/PSE43

Date	Type	Description	Location	Organisational Unit
			Chatswood	
3/7/17	Meeting	NSW Section Meeting July 2017	Sydney	Section
6/7/18	Professional	NSW Casual Teacher Forum	UTS	E25
20/7/17	Meeting	IMS NSW Chapter Committee Meeting	Macquarie Uni	IM09
20/7/17	Lecture	Measurement and Instrumentation at the Tissue / Machine Interface	Macquarie Uni	IM09
27/7/17	Lecture	LPWA: Giving a Voice to Things	EA Chatswood	IE13/IA34/PEL35
7/8/17	Lecture	Co-designing Ethical Interventions in Resource Constrained Environments	UNSW	SSIT
7/8/17	Meeting	NSW Section Meeting August 2017	Gore Hill	Section
10/8/17	Lecture	Electromagnetic Compatibility for Gen Y-Fi: Interference to Digital Communications	EA Chatswood	EMC27
10/8/17	Conference	Australian & New Zealand Students and Young Professionals Congress (ANZSCON) 2017	UTS	YP
10/8/17	Professional	IEEE SIGHT Special Training for Trainers	Sydney	YP
10/8/17	Professional	Women In STEM - Inspiration and Empowerment	UTS	WIE
10/8/17	Social	Young Professionals Meetup and ANZSCON Harbour Cruise	Sydney	YP
10/8/17	Lecture	Phase-Locked Frequency Synthesis and Modulation for Modern Wireless Transceivers	Macquarie Uni	CAS04/PHO36/SSC37/ED15
10/8/17	Site Visit	University of Sydney, Biomedical & Multimedia Information Technology (BMIT) Research Group Site Visit	Uni of Sydney	C16
14/8/17	Lecture	The Physics and Mathematics of Electromagnetic Wave Propagation in a Cellular Wireless Environment	Macquarie Uni	SB Macquarie
14/8/17	Lecture	Power Critical Loads: A Taiwan Experience	Macquarie Uni	SB Macquarie
14/8/17	Professional	Women in Power Engineering Roundtable	UNSW	WIE
14/8/17	Lecture	Approaches and Lessons Learned for a Comprehensive Reliability Improvement Effort	UNSW	PE31
15/8/17	Lecture	Power Electronics in Modern Power Grid	Macquarie Uni	SB Macquarie
15/8/17	Conference	Conference on Integration of Distributed Energy Resources (CIDER) 2017	Sydney	PE31
24/8/17	Lecture	Antenna Beam Steering and Cubesat Spacecraft assisting with Global Internet Connectivity	EA Chatswood	EMC27
4/9/17	Meeting	NSW Section Meeting September 2017	Gore Hill	Section
28/9/17	Lecture	Advocatus Diaboli: Introducing adversarial thought into engineering	EA Chatswood	C16
3/10/17	Workshop	IoT Workshop and Industrial IoT Presentation	Chatswood	SP01/COM19/OE22
3/10/17	Lecture	A Reliability Look at Energy	Sydney Uni	SMC28
9/10/17	Meeting	IMS NSW Chapter Committee Meeting	Macquarie Uni	IM09
9/10/17	Meeting	NSW Section Meeting October 2017	Gore Hill	Section
12/10/17	Lecture	Innovative Cancer Treatment System	EA Chatswood	EMB18
18/10/17	Professional	Sydney University Conversazione	Sydney Uni	Section
21/10/17	TSSP / TISP	IIATE Industrial Arts Teachers Conference	Sydney	Section
26/10/17	Lecture	Electrical Safety Regulation	EA Chatswood	DEI32
29/10/17	Social	Life Members Luncheon	Manly	Life Members
1/11/17	Lecture	Radar Cross Section of a Finite Parallel-Plate Waveguide with Material loading	Macquarie Uni	SB Macquarie

Date	Type	Description	Location	Organisational Unit
6/11/17	Meeting	NSW Section Meeting November 2017	Gore Hill	Section
9/11/17	Lecture	All Accessible Australian Geo-Location Search Engine Smart Phone App created by People with Intellectual Disability	EA Chatswood	CE08/BT02/PSE43
10/11/17	Lecture	Multifocal Bootlace Lens Design Concepts	Macquarie Uni	SB Macquarie
10/11/17	Social	CIS Chapter Opening Celebration	UTS	CIS11
16/11/17	Professional	Project Demonstration by final year Bachelor Mechatronics students	Macquarie Uni	IM09
16/11/17	Meeting	IEEE AP/MTT NSW Chapter AGM	Sydney	AP03/MTT17
16/11/17	Meeting	IEEE Computer Society NSW Chapter AGM	Sydney	C16
16/11/17	Meeting	IEEE Education Society NSW Chapter AGM	Sydney	E25
16/11/17	Meeting	IEEE Life Members NSW Affinity Group Meeting	Sydney	Life Members
16/11/17	Meeting	IEEE PES NSW Chapter AGM	Sydney	PE31
16/11/17	Meeting	IEEE NSW Section AGM	Sydney	Section
16/11/17	Social	IEEE NSW Section Annual Dinner	Sydney	Section
21/11/17	Lecture	IoT Sensor Integration from Smart Buildings to the Smart Grid	UNSW	PE31
22/11/17	Workshop	Smart Sensors, Instrumentation and Measurements	Macquarie Uni	IM09
22/11/17	Meeting	IMS NSW Chapter Committee Meeting	Macquarie Uni	IM09
24/11/17	Lecture	New Frontiers in Terahertz Technology	Macquarie Uni	AP03/MTT17
29/11/17	Lecture	Energy Harvesters as Power Supply for Sensors and Sensor Networks	Macquarie Uni	IM09
30/11/17	Lecture	Young Professional Achiever Lectures	EA Chatswood	YP
6/12/17	Lecture	DL talk by Dr. Octavian Polsolache	Macquarie Uni	IM09
7/12/17	Lecture	DL talk by Dr. Octavian Polsolache	UTS	IM09
15/12/17	Lecture	Marked Point Processes for Object Detection and Tracking in High Resolution Images: Applications to Remote Sensing and Biology	UNSW	SP01/COM19/OE22