

IEEE New South Wales Section Report 2014

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List(2015)
 - Dr David Tien - Section Chair
 - Prof Karu Esselle - Vice Chair
 - Dr Dushmantha Thalakituna - Secretary
 - Dr John Ypsilantis - Treasurer
 - Eddie Fong - Past Chair
 - Colin Elston - Assistant Secretary
- Section Executive Committee Member List(2014)
 - Dr David Tien - Section Chair
 - Prof Karu Esselle - Vice Chair
 - Dr John Ypsilantis - Secretary
 - Dr William Sloman - Treasurer
 - Eddie Fong - Past Chair
 - Dr Dushmantha Thalakituna - Assistant Secretary
- Section Highlights
 - ICC 2014 Sydney(Financial Sponsorship)
 - ICITA 2014
 - Formation of DEIS Chapter
 - SMC Day
 - UNSW Industry Night
- Major Events (International, National)
 - ICC 2014 Sydney(Financial Sponsorship)
 - ICITA 2014
- Major Chapter Activities
 - DL Visits
 - eHealth Workshop
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- Major Student and Affinity Group Activities
 - UNSW iToF Competition
 - Sydney University Research Conference
 - Macquarie University Thesis Presentations
 - Participation in ANZCON 2014
- Awards
 - Dr Graeme Gwilliam – R10 Outstanding Volunteer Award
 - Macquarie University Student Branch Second Place Australia Council Outstanding Student Branch Competition.
 - Prof Vic Gosbell Outstanding PES Engineer Award

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

- Summary (as per submitted NetSuite/L50)
 - As per updated NetSuite/L50
- Any other financial activities
 - Awaiting Accounts for ICC 2014 for which NSW Section was a Financial Sponsor

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PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
 - a) 31 Dec 12 2,705 + 114 (Affiliates)
 - b) 31 Dec 13 2,816 + 110 (Affiliates)
 - c) 31 Dec 14 2,754 + 107 (Affiliates)

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
 - a) Arranged Technical Meetings (Joint Meetings IEEE, IET & EA)
[Refer to Joint Meetings for 2014]
- To enhance members' knowledge on technology & applications in the real world.

 - b) To sponsor, support & participate in the International Conference on Information Technology and Application being held in Sydney in Jul 2014.
[Parts a), and b) above may be included in section B.3]

 - c) Provided Free student membership for 2014.
- To prepare & promote free student membership for 2015.

 - d) Participated and sponsored the IEEE Technologies of the Future (iToF) 2014 Competition and Exhibition being held in University of NSW in 5 Nov 2014.

 - e) Sponsored the papers competition in the 2013 Graduate School of Engineering & Information Technologies Student Conference being held in Sydney University on 19 Nov 2014.

 - f) Supported and sponsored active student branches (Macquarie University, UNSW) activities including weekly / monthly student papers presentation, guest speakers technical talks, site visits and to participate Orientation Days & Career Days to promote IEEE

[Parts d), e) and f) above may be included in section B.4]

 - g) Formation of new Dielectrics and Electrical Insulation chapter in Sep 2014.
[g) may be included in Section B.2]

 - h) Sponsored three representatives (to represent Student, Young Professional and WIE) to attend ANZSCON 2014 being held in Brisbane 3-5 Jul 2014 for networking, sharing knowledge and exchanged ideas with members from other Australian states & New Zealand.
[h) may be included in Sections B.3 & B.4]

 - i) Petitioned for the formation of a Vehicular Technology Society Chapter in New South Wales and participating in VTC 2017 Sydney.

B.2 Chapter Activities

- Total number of Chapters in the Section
 - Eleven(11)
- Number of Chapters formed in the current year
 - One(1)
- Number of active Chapters (Chapters who have reported required number of meetings during the year)

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- Ten(10). DEIS Chapter approved late in the year.
- Summary of Chapter activities (Chapter wise with attachment table/information)

Chapter/Group	Administrative	Technical Meetings	Professional	Social	SUBTOTAL	REMARKS
NSW Section 0509	10			1	11	
AP03/MTT17	1	3			4	Some Meetings involve Several Lectures
Computer C16		3			3	Multiple Presentations in some Meetings
SP01/COM19/OE22	2	5			7	
Education E25	1	2			3	
IE13/IA34/PEL35	1	2			3	
EMB18		4			4	
PES PE31	2	5			7	
CAS04/PHO36/SSC37/ED15		4			4	
SIT 30		2			2	VIC
IT12						
GRS29						ACT
SMC		3			3	
DEIS	1				1	Newly Formed Chapter
YP(GOLD)	2	1		1	4	
LIFE	1	1			2	
WIE	1	0		3	4	
SUBTOTAL	22	35	4	1	62	62

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

- Refer vTools L31 Meeting Reports(see appendix)

B.4 Students Activities

- Total number of Student Branches in the Section
 - Seven(7)
- Number of Student Branches formed in the current year
 - One(1) [new branch in UTS to replace the old branch]
- Section level student activities (student congress, paper and other contests, awards etc)
 - Refer to c), d), e), f) & h) in section B.1
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
 - 2 (UNSW and Macquarie University)
 - [Reactivation is in progress for University of Wollongong, University of Technology Sydney and Sydney University.]
 - Newly activated University of Technology Sydney Student Branch
 - Initiated reactivation of University of Wollongong Student Branch
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
 - Refer to student branch reports

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B.5 Affinity Group Activities

- Young Professional (YP)
 - Several Meetings as Reported using vTools
- Women In Engineering (WIE)
 - Several Meetings as Reported using vTools
- Life Member
 - Two Meetings as Reported using vTools

B.6 Awards & Recognition Activities

- Award constituted by the Section
 - Outstanding Engineer Award(NSW PES Chapter) – Awarded to Prof Vic Gosbell
- Award(s) received from R10
 - Graeme Gwilliam was Nominated and Received the R10 Outstanding Volunteer Award
- Award(s) received from IEEE HQ
 -

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

- Newsletter (name and number of issues in the year)
 - There were three(3) editions of the NSW Section Newsletter CIRCUIT
- Home Page of the Section (give the URL and how often it is updated)
 - <http://sites.ieee.org/nsw/> updated Monthly and on a needs basis
- Other means of contacts with Section members
 - eNotice Service and Direct email

B.8 Industry Relations

- Membership growth and retention
 - NSW Section has an active Senior Member upgrade program
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- Activities for/with industrial members
 - NSW Section Sponsored and participated in the University of New South Wales Industry Night
 - Self-Driving Cars Seminar

B.9 Humanitarian Technology Activities

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B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
 - NSW Section sponsored Australian Engineering Week and four Committee Members Volunteered to Host Site Tours
 - NSW Section held an annual Dinner to which all Members including Students were invited

PART C - OTHERS

C.1 Special Events

- Teacher in Service Program(TISP)

C.2 Relationship with National Societies

- NSW Section hold Joint Lecture Meetings with Engineers Australia and the IET
- NSW Section and Chapters invite Members of Engineers Australia, the IET and ACS-TSA to other Lectures that are not part of the Joint Lecture Program.

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- NSW Section informs Members of Engineers Australia and IET Conferences and Events

C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections
- Collaboration with Victorian Section regarding SIT Chapter
- Collaboration with Victorian Section on Conferences
- Joint activities with any other Section
- NSW PES co-operated with Western Australia PES on Down to Earth Conference
- Co-operating with Singapore Section to run PEDS 2015 in Sydney

C4 Support extended to Sub-sections & Society Chapters within the Section

- Section provides limited financial and administrative support to Chapters and Affinity Groups

C5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)

- Joint Lecture Program

C6 Problems anticipated and suggestions for solutions, if any

- The higher Australian Dollar adversely impacts on Section Rebate

PART D - GOALS AND PLANS

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

- Continuing with the Teacher in Service Program(TISP) in 2015
- Participation in several Conferences

D.2 Goals and Future Plans

- NSW Section is bidding for the IEEE Sections Congress 2017
- Bidding on Several International Conferences

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

- Increased financial support would allow more services for members
- Improved recognition and portability of Qualifications
- Facilitation of electronic communications for overseas meetings
- Better travel and travel insurance arrangements for Officers
- Addressing issues relating to Directors and Officers Liability Insurance

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APPENDIX – L31 MEETING REPORTS 2014

IEEE NSW Section February 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	03-February-2014
Lecture on Coastal Ocean Radars: Principles, Results and Applications - NEW SOUTH WALES SP01/COM19/OE	06-February-2014
PES NSW Chapter Committee Meeting - NEW SOUTH WALES PE31 CHAPTER	26-February-2014
One can't do it; several may do it together: Multiplicity and Periodicity in Antenna and Propagation	03-March-2014
One can't do it; several may do it together: Multiplicity and Periodicity in Antenna and Propagation	03-March-2014
Terahertz Radar for Stand - Off Through - Clothes Imaging - NEW SOUTH WALES AP03/MTT17 CHAPTER	03-March-2014
Terahertz Radar for Stand - Off Through - Clothes Imaging - NEW SOUTH WALES AP03/MTT17 CHAPTER	03-March-2014
Wideband and Low - Loss Metamaterials for Microwave and RF: Fast Algorithm and Applications - NEW SOUTH WALES AP03/MTT17 CHAPTER	03-March-2014
Wideband and Low - Loss Metamaterials for Microwave and RF: Fast Algorithm and Applications - NEW SOUTH WALES AP03/MTT17 CHAPTER	03-March-2014
Wearable Flexible Antennas and Electronics - NEW SOUTH WALES AP03/MTT17 CHAPTER	03-March-2014
Wearable Flexible Antennas and Electronics - NEW SOUTH WALES AP03/MTT17 CHAPTER	03-March-2014
Lecture on Characteristic Mode Based Antenna Design –A Straight Forward Approach to Small Form Factor	10-March-2014
Lecture on Characteristic Mode Based Antenna Design –A Straight Forward Approach to Small Form Factor	10-March-2014
IEEE NSW Section March 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	10-March-2014
NSW PES Lecture - Challenges of a Growing Photovoltaic Industry - NEW SOUTH WALES PE31 CHAPTER	13-March-2014
Lecture on Gap Waveguides and PMC Packaging: Octave Bandwidth mm-and submm-Wave Applications of Soft	21-March-2014
Lecture on Gap Waveguides and PMC Packaging: Octave Bandwidth mm-and submm-Wave Applications of Soft	21-March-2014
IEEE NSW Section April 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	07-April-2014
SMC Celebration Lecture Series 2014 - NEW SOUTH WALES SMC28 CHAPTER	17-April-2014
Committee Meeting - NEW SOUTH WALES YOUNG PROFESSIONALS AFFINITY GROUP	19-April-2014
IEEE NSW Section May 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	05-May-2014
Lecture on Space Engineering Research at ACSER(UNSW) - NEW SOUTH WALES YOUNG PROFESSIONALS AFFINITY GROUP	08-May-2014
IEEE NSW Section June 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	02-June-2014
Lecture Software Defined Networking: Why, When, Where, and How - NEW SOUTH WALES SP01/COM19/OE22 CHAP	11-June-2014
Overview of Green Wireless Communications Research at Edinburgh - NEW SOUTH WALES SP01/COM19/OE22 CHA	17-June-2014
Casual Teacher Forum for Laboratory Demonstrators - NEW SOUTH WALES E25 CHAPTER	23-June-2014
WIE NSW Meeting - NEW SOUTH WALES WOMEN IN ENGINEERING AFFINITY GROUP	25-June-2014
NSW PES Lecture - 100% Renewables for Australia? Challenges and Opportunities - NEW SOUTH WALES PE31	26-June-2014
Lecture on Nonlinear Optics with Bessel Beams in Fibres - NEW SOUTH WALES CAS04/PHO36/SSC37/ED15 CHAP	26-June-2014

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How to write a paper - NEW SOUTH WALES CAS04/PHO36/SSC37/ED15 CHAPTER	27-June-2014
ICITA 2014 - Day One - NEW SOUTH WALES C16 CHAPTER	02-July-2014
ICITA 2014 - Day Two - NEW SOUTH WALES C16 CHAPTER	03-July-2014
IEEE NSW Section July 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	07-July-2014
Lecture on Photonics Enables a Microscope in a Needle for Imaging Deep in Tissues - NEW SOUTH WALES C	11-July-2014
Catch up - NEW SOUTH WALES YOUNG PROFESSIONALS AFFINITY GROUP	19-July-2014
Social Media & Cyber-Racism Lecture - NEW SOUTH WALES C16 CHAPTER	31-July-2014
IEEE NSW Section August 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	04-August-2014
Sydney Opera House site Visit - NEW SOUTH WALES LIFE MEMBER AFFINITY GROUP	07-August-2014
IEEE IAS UOW Student Branch Chapter Annual General Meeting - NEW SOUTH WALES IE13/IA34/PEL35 CHAPTER	08-August-2014
Cardiovascular Modelling and Arterial Blood Pressure Lecture - NEW SOUTH WALES EMB18 CHAPTER	14-August-2014
WIE NSW Meeting - NEW SOUTH WALES WOMEN IN ENGINEERING AFFINITY GROUP	21-August-2014
IEEE NSW Section September 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	08-September-2014
The Application of Heuristics in Engineering, Automation and Decision Support - NEW SOUTH WALES PE31	11-September-2014
Lecture Image Recognition via Two-dimensional Random Projection and Nearest Constrained Subspace - NE	15-September-2014
Research Seminar - NEW SOUTH WALES IE13/IA34/PEL35 CHAPTER	17-September-2014
Seminar: A Probabilistic Definition of Salient Regions for Image Matching - NEW SOUTH WALES SMC28 CHA	17-September-2014
UWB Nano-Antenna Arrays - NEW SOUTH WALES AP03/MTT17 CHAPTER	26-September-2014
UWB Nano-Antenna Arrays - NEW SOUTH WALES AP03/MTT17 CHAPTER	26-September-2014
Transformer Design Review - Risk Management in Transformer Procurement and Design/Manufacture - NEW S	09-October-2014
IEEE NSW Section October 2014 Executive Committee Meeting - NEW SOUTH WALES SECTION	13-October-2014
Complex Networks for Modelling, Control and Optimisation: Theory and Applications - NEW SOUTH WALES I	14-October-2014
IEEE PES UOW Student Branch Chapter Annual General Meeting (AGM) - NEW SOUTH WALES PE31 CHAPTER	20-October-2014
Technology Enhanced Learning - NEW SOUTH WALES E25 CHAPTER	24-October-2014
Lectures on Self-Driving Cars: Fiction or Reality - NEW SOUTH WALES CAS04/PHO36/SSC37/ED15 CHAPTER	30-October-2014
WIE NSW Meeting - NEW SOUTH WALES WOMEN IN ENGINEERING AFFINITY GROUP	07-November-2014
Electromagnetic Interference Attenuation Test of the Space Shuttle Discovery using the Air Force Rese	13-November-2014
Electromagnetic Interference Attenuation Test of the Space Shuttle Discovery using the Air Force Rese	13-November-2014
November 2014 Oceanic Engineering Lectures - NEW SOUTH WALES SP01/COM19/OE22 CHAPTER	13-November-2014
IEEE NSW COM/SP/OE Adinistrative Meeting - NEW SOUTH WALES SP01/COM19/OE22 CHAPTER	13-November-2014
Lecture on Topology Coordinate System: A Novel Domain for Self-Organizing Large-Scale 2D and 3D Senso	14-November-2014
Education Chapter AGM - NEW SOUTH WALES E25 CHAPTER	18-November-2014
Young Professionals AGM - NEW SOUTH WALES YOUNG PROFESSIONALS AFFINITY GROUP	21-November-2014
NSW Life Members Affinity Group AGM - NEW SOUTH WALES LIFE MEMBER AFFINITY GROUP	21-November-2014

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SP/COM/OE Joint Chapter AGM 2014 - NEW SOUTH WALES SP01/COM19/OE22 CHAPTER	21-November-2014
NSW PES AGM 2014 - NEW SOUTH WALES PE31 CHAPTER	21-November-2014
NSW Women in Engineering Affinity Group AGM - NEW SOUTH WALES LIFE MEMBER AFFINITY GROUP	21-November-2014
NSW Section AGM 2014 - NEW SOUTH WALES SECTION	21-November-2014
NSW Section 2014 Annual Dinner - NEW SOUTH WALES SECTION	21-November-2014
IEEE MTT-S Workshop - NEW SOUTH WALES AP03/MTT17 CHAPTER	09-December-2014
eHealth Workshop - Day One - NEW SOUTH WALES EMB18 CHAPTER	10-December-2014
IEEE IAS President's visit - NEW SOUTH WALES IE13/IA34/PEL35 CHAPTER	11-December-2014
eHealth Workshop - Day Two - NEW SOUTH WALES EMB18 CHAPTER	11-December-2014
NSW PES Lecture - Kiosk Substations - NEW SOUTH WALES PE31 CHAPTER	11-December-2014
eHealth Workshop - Day Three - NEW SOUTH WALES EMB18 CHAPTER	12-December-2014