



The Institute of Electrical and Electronics Engineers, Inc.

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Secretariat

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IEEE NEW SOUTH WALES SECTION
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Editorial:

This is the sixth newsletter I've edited.

This one is being edited with a newly downloaded copy of almost the very latest version of Libre Office – 5.1.5.2 – updated for this edition of Circuit.

The news for this edition of Circuit is that the Annual General Meeting is on Thursday 17th November 2016.

We won't be having any elections this year – last year's committee is mostly willing to keep on doing the same jobs next year, and nobody else has expressed an interest in taking over any of those jobs. This year's secretary, Dushmantha Thalakatuna, fears that he may not be able to do the job as well as he'd like next year, and may end up handing it off to somebody else, probably somebody already active on the committee. There's been some discussion but I don't want to delay this newsletter until a decision has been negotiated.

The IEEE administration does offer small encouragements to induce branches to at least act as if they are running an election, but it's usually hard to find a single volunteer willing to take on any of the electable jobs, and while one can usually find dummy candidates who will stand down if they get more votes than the person who is actually willing to do the work, the encouragements aren't generous enough to have got us to go through the motions this year.

We could definitely use a few more volunteers – this branch and the IEEE as a whole are shrinking (not all that rapidly) rather than growing – and we'd all like to find a few more activities that would tell more people - and particularly potential members - what we do, and why it's worth doing.

We've even got money we could spend on these activities – our accumulated funds are going up despite the fact that our membership is shrinking.

Karu's chairman's message highlights some of the stuff that has happened and is happening, and does emphasise that we'd like to get more suggestions about more things that we might do.

Message from the Chair

So far 2016 has been full of success stories. First of all I wish to congratulate Mr. Eddie Fong, Past Chair of IEEE NSW Section, for receiving the prestigious 2016 Outstanding Volunteer Award from IEEE R10 in recognition of his extensive services to IEEE New South Wales Section, IEEE Region 10 and IEEE, a very well deserved award for a great IEEE champion.

Then there were a few more. Amongst them were the Macquarie University IEEE Student Branch receiving the 2nd Prize in the Australia Council 2015 Best Student Branch Award, and the Wollongong University IEEE Student Branch receiving a Special Mention. The Women In Engineering (WIE) Affinity Group (AG) proposed and petitioned under Macquarie University IEEE Student Branch has been approved and is now official. My understanding is that the UTS Student Branch is revitalising its activities under a new leadership and student volunteers there are intending to form a WIE AG as well. I hope this will encourage other universities to increase their IEEE student activities, and form WIE and SIGHT affinity groups.

For the first time in New South Wales (and possibly in Australia), a special IEEE Fellow function was held in Sydney in August. It was organised and sponsored by Business Events (BE) Sydney, and held in their premises. You may be aware that the NSW Government is very much interested in bringing technical and other conferences to Sydney. The BE Sydney officials informed the invited IEEE delegates how they can be helped in bidding for and organising such events. With an exciting presentation by NSW Chief Data Scientist Dr Ian Oppermann, the event was a great success. To organise this type of activity in the future, and to help local IEEE Fellows to contribute more to their local community and economy in addition to the contributions they already make to the society at large, IEEE NSW Section Committee has recently created a new Fellows Activity position on the committee.

I also attended, and represented IEEE NSW Section, at the 2016 IEEE TENSYP – the 2nd technical conference of IEEE Region 10, where I had the pleasure of meeting several executives of IEEE Region 10, including the current Director Mr. Ramakrishna Kappagantu, Director Elect Prof. Kukjin Chun and Past Director Prof. Janina Mazierska. All of them appreciated the contributions the IEEE NSW volunteers make to the IEEE and to our participation in R10 events. I hope many IEEE members in NSW will have the opportunity to showcase our achievements to IEEE Executives when they visit Sydney next year for 2017 IEEE Section Congress and R10 Jubilee Celebrations.

I hope you all have voted in 2016 IEEE Elections. I'm looking forward to hear the results, in particular about the proposed constitutional amendments. Speaking about ballots, the NSW Section invites and encourages you to vote in the forthcoming IEEE NSW Section Election as your voice is crucial to the future of IEEE.

Let me repeat that I, and the NSW committee, are always open to your suggestions on how to improve our service to IEEE NSW members. I look forward to meeting you all in the 2016 IEEE Annual General Meeting, if not earlier.

Professor Karu Esselle

NSW Section Chair, IEEE Fellow and IEEE Distinguished Lecturer of AP Society 2017-2020.



IEEE NSW Section 2016 AGM and Dinner – RSVP Form

Date: Thursday, 17 November 2016
 Time: 6pm to 7pm Chapter and Affinity Group AGMs
 7pm to 8pm NSW Section AGM
 8:35pm until late NSW Section Dinner \

Venue: AGM Venue will be
 Hilton Sydney,
 488 George Street, Sydney, NSW, 2000, Australia
 phone: (02) 9266 2000
<http://www.hiltonsydney.com.au/directions-map>

Dinner: The Annual Dinner will be at the Braza Brazilian Restaurant Darling Harbour,
 1-25 Harbour St Darling Harbour
 phone: (02) 9286 3733
<http://dh.braza.com.au/>

Parking: For Car Parking please see:
<http://www.wilsonparking.com.au/go/regions/sydney-city-south>
<http://www.cityofsydney.nsw.gov.au/AboutSydney/ParkingAndTransport/CityParking/CarParks.asp>

RSVP: Friday 11 November 2016
 Please E-mail the completed RSVP form to
 Bruce Poon: Bruce.Poon@IEEE.org
 or phone: 0414 662 766

IEEE NSW Section will cover the cost of yours and your partners' dinner (drinks excluded) for all registrations received before the RSVP date above. However, for those no show at the event, then \$80 per person will be charged to your credit card.

Reservation Form for IEEE NSW Section AGM & Dinner 2016

Name: Attending: AGM

Dinner..... (Yes/No as applicable) Vegetarian: (Yes/No as applicable) Tel:

e-mail: Membership No.:

Partner Attending: (Yes/No as applicable)

Partner's Name: Attending: AGM

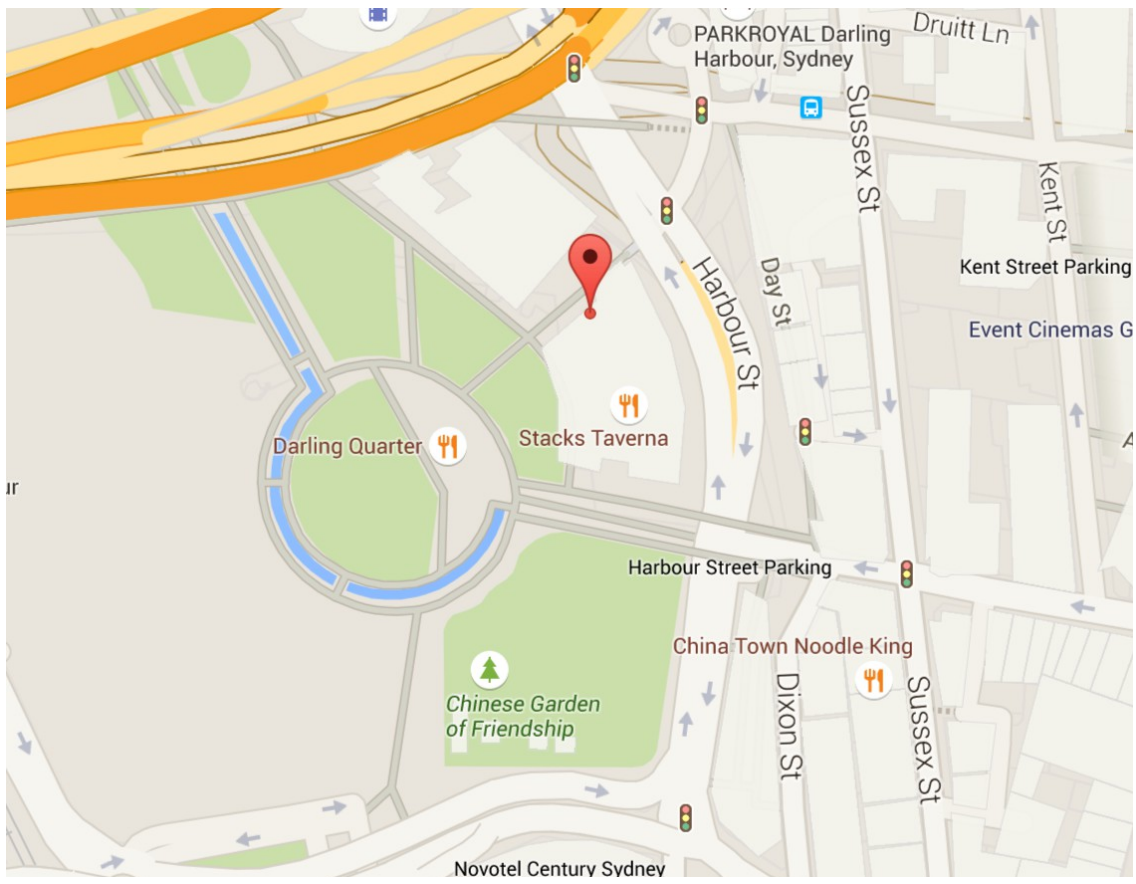
Dinner..... (Yes/No as applicable) Vegetarian: (Yes/No as applicable)

Name on the Credit Card: *

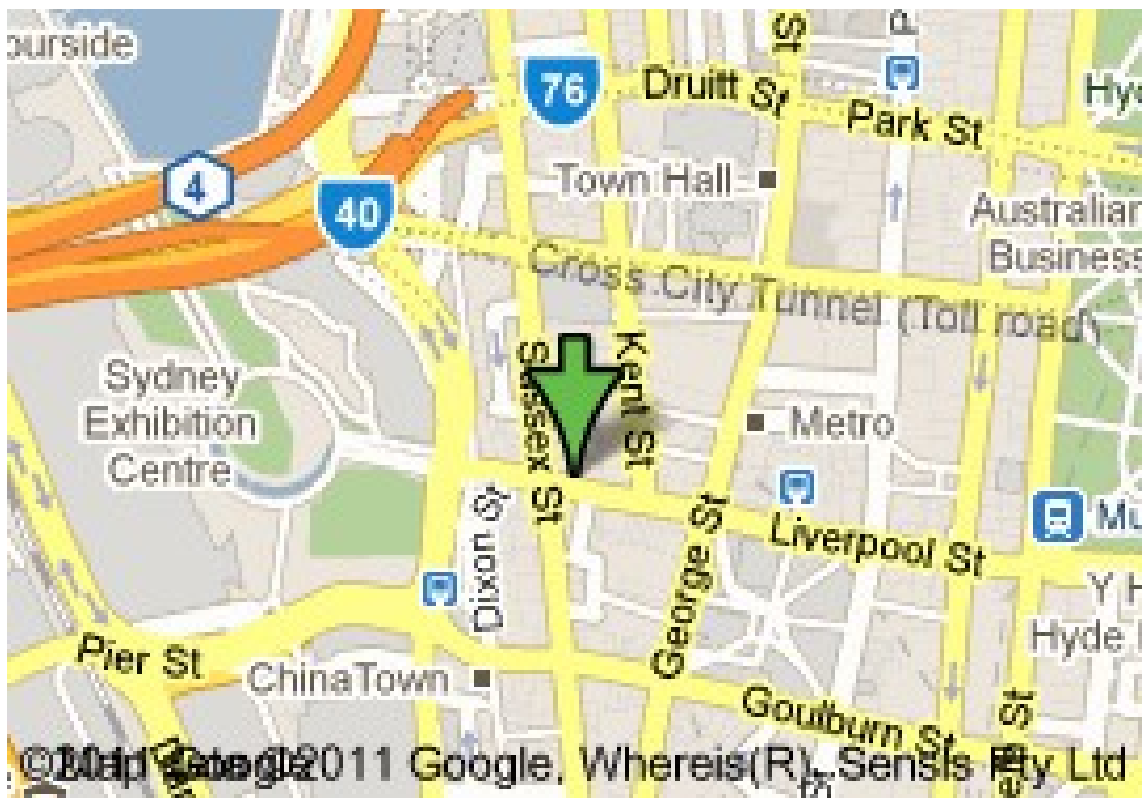
Credit Card No.: Credit Card Expire Date:

(*This will be used if no show at the event)

Map: Braza, 1-25 Harbour St, Darling Harbour



Map: Car Parking



IEEE Young Professionals NSW Affinity Group

Our focus this year has been to engage more of our members and to promote our group through a variety of activities such as BBQs, interactive talks, and seminars. We agree that all young professionals have had a fair share of attending lectures during their university years, so let's find more exciting things to do... (Uh'oh! No... we are not undermining the importance of continuing professional development... definitely not!). Well, on a more serious note, YP NSW group aims to provide early career engineers and researchers opportunities to engage with their peers. The idea is to gain visibility, to network, to achieve recognition, and to strengthen professional connections through focused activities.

Our group has had a fantastic year so far with various technical and social activities planned around various audiences and technical fora. This was done in particular to attract the interest of young professionals from Sydney as well as from far beyond. The year kicked off with an engaging riverside BBQ on a sunny afternoon, which was attended by several YP members and non-members. Later on, various seminars and interactive lectures were arranged which contributed to acquaint the attendees socially, as well as to enlighten them professionally. In 2016, we have teamed up with the IEEE Student Branch at Macquarie University and the Women in Engineering group to extend the reach of our activities to future young professional members. We are also looking forward to joining hands with more local groups.

Watch out for our event invitations and come visit us. We will greet you with a big smile and be glad to have you on board. Reach out to one of our committee members with new ideas, activity suggestions, or just to chat:

Chair: Raheel Hashmi, Lecturer in Wireless Engineering, Macquarie University, NSW

Vice Chair: Balakrishna Sarma, IT Specialist, Marriott International, NSW

Secretary: Syed Abbas, RF Engineer, CommScope Australia, NSW

Treasurer: Dushmantha Thalakatuna, BAE Systems, NSW Australia

With the spring showing up, keep an eye out for details of our upcoming social gathering. We would be glad to see you there.

Contributed by **Raheel Hashmi**
Chair, IEEE YP NSW, Australia





POWER & ENERGY SOCIETY CHAPTER UPDATE

NSW Chapter AGM

The annual general meeting of the IEEE PES NSW Chapter will be held at 6:00pm on Thursday 17 November 2016 at the Sydney Hilton Hotel. This will be followed by the NSW Section AGM and the annual dinner. All PES members are very welcome to attend.

Down to Earth Conference 2016

The Down to Earth Conference 2016 was held in the Hunter Valley from 13 to 15 September 2016. The conference is aimed at all those involved in earthing and lightning protection and provides an opportunity to catch up with industry developments in the field. It was organised by Engineers Australia and was technically co-sponsored by the IEEE Power & Energy Society.

This year's event is estimated to have attracted 120 participants, including from New Zealand, Japan, USA, Canada, Sweden and the United Arab Emirates. Two tutorials were presented, one on lightning protection of HV assets and the second on earthing related risk calculations. Risk management was one of the central themes of the conference.

ISGT Asia 2016 - Melbourne

The IEEE Innovative Smart Grid Technologies Asia Conference (ISGT Asia 2016) will be held in Melbourne from 28 November to 1 December 2016. The conference has managed to attract an impressive line-up of plenary speakers. The last time it was held in Australia was in Perth in 2011.

Further information is available at sites.ieee.org/isgt-asia-2016

SmartGridComm 2016 - Sydney

The Seventh IEEE International Conference on Smart Grid Communications (SmartGridComm) 2016 will be held in Sydney from 6 - 9 November 2016. The IEEE Communications Society is the technical and financial sponsor of the conference. The conference is expected to attract 300 engineers and academics over three days.

More information is available at sgc2016.ieee-smartgridcomm.org

Submitted by Ray Brown, the Vice Chair of the IEEE executive committee and the Chair of the Power & Energy Society NSW Chapter.

His e-mail address is ray_brown@ieee.org



Macquarie University Student Branch/MTT-S Student Chapter Activities

This year so far has seen a number of technical and non-technical events organized by IEEE Student Branch at Macquarie University (IEEE SB@MQ) and its entities. We mention various activities below. We hope to maintain a sustainable mix of structured activities for some time to come.

Activities include:

- a. On July 1st, we received an official welcome letter on the formation of Macquarie University Women In Engineering Affinity Group (MQ WIE AG).
- b. On July 1st, the Macquarie WomenInEngineering AffinityGroup also won a support from the 2016 R10 WIE coordinator to organise a congress/forum titled: "Female versus male engineers: who is better prepared to find a job?". The forum is tentatively scheduled to be held at Macquarie University on 13th October, 2016.
RSVP at: <https://hdrworkshops.mq.edu.au/registration/new/13501?year=2016>
- c. We have a new interactive website: <http://sites.ieee.org/sb-mq>
- d. IEEE SB@MQ came second in the "Best Student Branch Award" for Australia in the "IEEE Australia Council Outstanding Student Branch Competition 2015". The prize includes \$300 and certificates.

On 15th March, IEEE SB@MQ co-organised "Engineering Welcome" for the freshmen enrolled in department of Engineering at Macquarie University. This event provides a good platform for student networking and getting new members. The event also involved a variety of games, pizza and prizes (IEEE freebies and stuff from the membership development kit were given to various activity winners).

Various "Distinguished lectures" are arranged by the IEEE Microwave Theory and Techniques Society | MTT-S MQ. So far we have heard the following distinguished lecturers present :

1. 11th Aug, 2016, "Ultra-high Efficiency Phased Arrays for Astronomy, Remote Sensing, and Satellite Communications" by Prof. Karl Warnick, Professor, Brigham Young University, Provo, Utah, USA.
2. 12th Sep, 2016, "Multiphysics Modelling in Computational Electromagnetics: Challenges and Opportunities" by Prof. Jian-Ming Jin, Professor, University of Illinois at Urbana-Champaign, USA

Third lecture is scheduled for 26th Oct, 2016, titled: "Metamaterials in Electromagnetics: A Bird's-Eye View" to be given by Prof. Ari Sihvola, Professor, Aalto University, Finland

IEEE SB@MQ has also set up a seminar series for the Masters and PhD students to present their research work. This series will allow the researchers to practice their skills in presenting their technical findings to a relatively unsophisticated audience, who can't be expected to know why the research is worth doing.

On 16th May, IEEE SB@MQ hosted a talk titled: "IEEE Standards Association (IEEE-SA) Why Standards Matter?" by Mr. Srikanth Chandrasekaran, Director Standards & Technology, IEEE India. The talk highlighted various emerging standards such as IoT, Smart Grids, 5G etc and how students can get involved in the evolution of such standards.

On 6th June, a talk on "Intellectual Property" (IP) was organised. It covered what is meant by "intellectual property" and the processes followed in Australia and worldwide to secure it. This talk was presented by Martin Friedgut, Senior Associate / Patent Attorney, Spruson & Ferguson

To encourage social networking, IEEE SB@MQ arranged a badminton tournament on 21st April which involved more than 15 student members of the branch. A BBQ plan is also planned in the end of the year to celebrate the successful year for the branch.

All the events mentioned are a joint venture of the IEEE StudentBranch@Macquarie, the IEEE Young Professionals NSW and the Macquarie IEEE WomenInEngineering AffinityGroup.

Follow us on Facebook to get information about upcoming activities: <https://www.facebook.com/IEEEMQ/>.

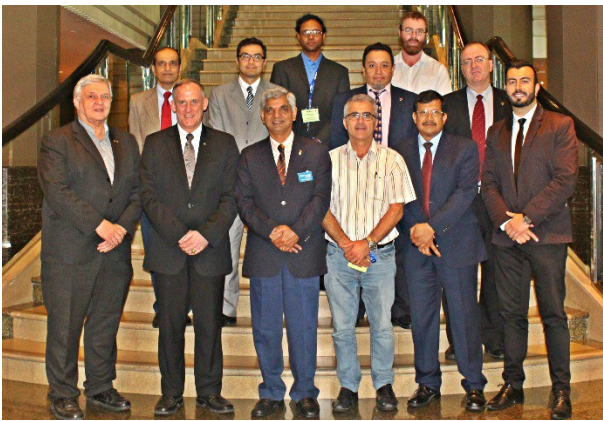
Saad Ul Hasan

Chair, IEEE Student Branch

Macquarie University

sb.mq@ieee.org

saad.hasan@students@mq.edu.au



The Society on Social Implications of Technology (SSIT) of IEEE

SSIT held an event on 15 September, with the main speaker being Anni Rowland-Campbell of intersticia. Anni encouraged the audience to think about the future of the Web, and how the relationship between man and machine has changed and continues to change. She took us on a journey through social media, algorithmic decision making and trans-humanism, encouraging us to think about possible futures and our ability to steer through them. The talk was well received and the subsequent debate was lively.

SSIT encourages all IEEE members to engage with questions around the social implications of the technologies they design. If you have an idea for a talk, or would like more information about SSIT, please contact Lyria Bennett Moses (lyria@unsw.edu.au). In addition, we encourage all IEEE members to join SSIT when they renew their membership and be a part of the debate about the future of technology.

Contributed by Lyria Bennett Moses, Associate Professor in the Faculty of Law,
University of New South Wales (UNSW), Australia



Life Members Affinity Group

The next activity for the Group is a luncheon at the King Tide Restaurant, Brooklyn on Sunday 16 October.

The Group's AGM will be held before the Section AGM on Thursday 17 November. You are all invited to attend and join us for the dinner after.

We are always looking for people to serve on the committee.

The committee would welcome suggestions and help in organizing activities.

Remember the group is here to serve its members. Unless you let us know your desires, we are unable to try to fulfill them.

The Group has the email nswiee.lmag@outlook.com . Could please ensure that your spam filter does not block any emails that we may send you?

Submitted by Colin Elston, the secretary of the Life Members Affinity Group

Joint Institutions Lecture Program 2016

13 October 2016 Joint Lecture

Topic: Rail Operational Modelling A Systems Engineering Approach to Rail Projects

Presenter: Thomas McPeake – Signalling Design Manager Concept and Innovation

Venue: Engineers Australia Harricks Auditorium 8 Thomas Street Chatswood

Date: Thursday the 13th of October, 2016 Time: 5:30 pm for 6:00 pm start

Cost Members: Free Cost Students: Free Cost Non-Members: \$30

Hosted By: Joint Electrical Institutions Sydney - Engineers Australia, IEEE, IET

Further Information: Paul Furniss pbfurniss@theiet.org

27 October 2016 Joint Lecture

Topic: Microfluidics and Systems-on-a-chip for cheaper, better and faster health care

Presenter: David Ingliss – Department of Engineering, Macquarie University

Venue: Engineers Australia Harricks Auditorium 8 Thomas Street Chatswood

Date: Thursday the 27th of October, 2016 Time: 5:30 pm for 6:00 pm start

Cost Members: Free Students: Free Cost Non-Members: \$30

Hosted By: Joint Electrical Institutions Sydney - Engineers Australia, IEEE, IET

Further Information: Aaron Sanders aaron.sanders.linux@gmail.com

10 November 2016 Joint Lecture

Topic: HF Ocean Radar: From Down Under to Europe

Presenter: Professor Mal Heron, IEEE/OES Distinguished Lecturer, FIEEE, FIEAust.

Venue: Engineers Australia Harricks Auditorium 8 Thomas Street Chatswood

Date: Thursday the 10th of November, 2016 Time: 5:30 pm for 6:00 pm start

Cost Members: Free Cost Students: Free Cost Non-Members: \$30

Hosted By: Joint Electrical Institutions Sydney - Engineers Australia, IEEE, IET

Further Information & Details: <https://www.engineersaustralia.org.au/portal/event/hf-ocean-radar-down-under-europe>

Contact: Trevor Blackburn t.blackburn@unsw.edu.au

Registration: <https://www.engineersaustralia.org.au/portal/event/hf-ocean-radar-down-under-europe>

For more information (and a few more events) see

<https://www.engineersaustralia.org.au/events-all/c/115//253//254>

New and upgraded Members of the NSW branch of the IEEE.

Fellows

We have no new Fellows.

Life Fellow

We have no new Life Fellows.

Senior Members

We have 12 members who have moved into the Senior Member category.

Lyria	Bennett	Moses	Samuel	K	Calder
Robert		Carman	Rukmi	D	Dutta
Xiaodi		Huang	Sherry		Moghadassi
Tim	C	Moors	Paul	W	Robinson
Syed	A	Shahrestani	Rajashekharan		Soundrarajan
Marco		Tomamichel	Jianlong		Zhou

Two are notable. Lyria Bennett Moses is a regular and reliable contributor to Circuit. Shahrzad (Sherry) Moghadassi is active in Engineers Australia, and got a mention for it when she appeared here as a new Member, a few issues ago.

IEEE Senior Membership is open to members who have been in professional practice for at least 10 years, with at least 5 years of significant performance. There is no requirement to have been involved in academic research or to have published papers or the like. There is no cost nor any additional on-going fees.

Application for Senior Membership is via an on-line process and there is a requirement for three references from IEEE Senior Members. This can be a problem for some potential applicants, but the NSW executive committee will be happy to help hunt up potential referees.

Life Senior Members

We have no new Life Senior members

Life Members

We have nobody who has moved into the Life Member category in the last quarter

Affiliates

We have two new affiliate members

Colin John Adams Warren F Peterson

Members

We have 224 people who are new members or have been upgraded to member status, which does seem to include our web-master Mahmoud Elkhodr.

Syed	Muzahir	Abbas	Damith Buddika Wickramasingha Abeywardana			
Syed	Shaukat Raza	Abidi	Iwan		Adhicandra	
Muhammad	Usman	Afzal	Mahboob		Alam	
Mubarak		Alrashidi	Hassan	Abduljabbr	Al-shanawah	
Pasindu	Dissan	Aluthwala	Kanchana		Amarasekara	
Nadil		Amin	Ilyana		Anwar	
Ulises	Alejandro	Aregueta-Robles	Ahmadreza		Argha	
Syed	Z	Arshad	Varun	Vinod	Arur	
Amit		Aryal	Shahzad		Asif	
Jasper	Chi	Ho	Au	Mohammad	Imran	Azim
Ahmad		Baranzadeh	Suchet		Bargoti	
Andrew		Batley	Johann		Bengua	
Kishore		Bhowmik	Rhys		Blackman	
Anantasri		Boddupalli	Donna		Brandon	
Joshua		Brown	Emily	Kate	Buncombe	
Scott		Butler	Anna	Qianyao	Cai	
Jason		Cameron	Marie	Josephine	Rose	Castro
Ivan		Cauchi	Andrew		Chan	
Xiaofeng		Chang	Siyuan		Chen	
Qianqian		Chen	Yen-hsun		Chen	
Wei-Chung		Cheng	Tian		Cheng	
Yin	Tat	Peter	Chiu	Chee	Mun	Chong
Wing	Yan (Victor)	Chu	Philip		Chu	
Gregory	Kevin	Cohen	Matthew	Dylan	Conley	
Andrew	James	Cook	Jeffrey	Thomas	Cribbin	
Hui		Cui	Sepehr		Damavandinejadmonfar	
Ba	Thinh	Dao	Alok		Dave	

Jeremy		Davis	Michael	De Nil
Robert	Joel	Denison	Oliver	Diessel
Changxing		Ding	Zhongli	Dong
Yong		Dou	Calvin	Drummond Eiber
Mahmoud		Elkhodr	Ewald	Enzinger
Bahjat		Fakieh	Ghias	Farivar
Mohammad		Farshadnia	Alison	K Flynn
Nicholas		Fochtman	Min	Fu
Weiljie		Gao	Navjot	S Garcha
Douglas	Roy	George	Stuart	Patrick George
Sajad		Ghatrehsamani	Jennifer	Gielis
Jose Luis	Guerrero	Gallegos	Md.	Habibullah
Walter		Haindl	Neha	Hanif
Mohammad	Nazmul	Haque	Wibowo	Hardjawana
N	C	Harsha	John	Paul Harvey
Raheel	Maqsood	Hashmi	Mahdi	Hassan
Gerrit		Hattingh	Rahmat	Heidari
Ruihang		Hou	Louis	Hourany
Jacqueline		Huvanandana	Astria	Nur Irfansyah
Chitra		Javali	Darshana	Nayanajith Jayasinghe
Sachini	Nisansala	Jayasooriya\	Shanta	P Jayawardana
Fan		Jin	Peter	Allen Johnson
Guillaume		Jourjon	Marcel	Julliard
Kumarswamy		Kadatoka	Dean	Farai Kaila
Kaavya		Karunanithi	Chalakorn	Karupongsiri
Jon		Keeble	Tariq	Mahmood Khan
Atefeh		Khosravi	Arslan	Kiyani
Adrian		Konkol	Ian	William Krieger
Grayson		Ladmore	Wai	Lau
Khanh		Le	Fajun	Li
Kevin		Li	Zhixiong	Peter Li
William		Lim	Steven	Limpert
Sidong		Liu	Tongliang	Liu
Vita		Lystianingrum	Jeremy	Chen-Xiang Ma
Wenshuo		Ma	Nareh	Mamtani

Hesamoddin		Marzooghi	Luke	Thomas	McDonald
Martin		McGrane	David	Antony Matthew	McKenzie
Chathurika	Prasadini	Mediwaththe	Anuj		Mehta
Alton		Menggasa	Josh		Merritt
Santanu		Metia	Sleiman	Nassif	Mhanna
Jeonghwan		Min	Nurul	Ain	Mohd Said
Rebecca	Erin	Morgan	Kevin	James	Morgan
Blair		Morrison	Sayidul		Morsalin
Maheshreddy		Mudiganti	Mohsen		Naderpour
Nenad		Nestorovic	Farzad		Noorian
Tuale	Andrew	Omagba	David	A	Partington
Timothy	Michael	Patten	Hung	Dung	Pham
Vu		Pham	Marc	James	Piggott
James		Pinnock	Richard	Thomas	Pozza
Joao	Paulo	Prata	Yuqiao		Qian
Maoying		Qiao	Jing		Qiu
Phillip		Quin	Khandaker	Md Sydur	Rahman
Md	Tanvir	Rahman	Dothinka	Saranath	Ranamuka Rallage
Sabih	ur	Rehman	Fernando		Renteria Correa
Girish	Shivalingappa	Revadigar	Andrew		Reynolds
Shannon	Andrew	Rios	Hamid		Rokni
Serge		Rozentsvet	Richard		Rudd
Alejandro		RuizRivera	Michael	G.	Ruppert
Robert	Shuhdi	Salama	Steve		Sam
Spyridon	Peter	Samios	Apurva	Satish	Shah
Md.		Shahzamal	Elia	Shafiah	Shamsul Liza
Jingyu		Shao	Yanyan		Shen
Zhan		Shi	Catherine		Simpson
ShoneetP		Singh	Satwinder		Singh
Robert		Sison	Anastasia	Hertanti	Soeriyadi
Roger		Sommers	Gavin		Stapleton
Marcus	David William	Steel	Nick		Stevens
Heidi	B	Stratti	Roman		Stupak
Xing		Su	Yingjie		Tan

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Badari Narayana Nagarajasharman Thyamagondlu

Scott		Tillman	Lachlan		Toohey
Bao	Cao Quang	Truong	Faisel		Tubbal
Jordan	Alexander	Turley	Alexander		Turner
Hugh	Justin	Ujhazy	Abu	R	Ullah
Jack		Umenberger	Dao		Vu
Shuo		Wang	Haishuai		Wang
Xue		Wei	Yiying		Wei
Frederick Steven		Wells	Mark	Justin	Wood
Tong		Wu	Kevin		Wu
Yizhen		Xu	Chien-Jen		Yang
Chih-Yu	(John)	Yang	Chi		Yang
Xiaoyu		Yang	Md.	Tanvir	Yeasin
Ammar		Zafar	Amiruddin	bin	Zainuddin
Eisa		Zarepour	Rob		Zeltzer
Wang		Zhang	Xiaojun		Zhang
Hao	Zhou				

Graduate Student Members

We have 73 new graduate student members.

Alina	Rahakhi	Ajayan	Md.	Parvez	Akter
Kazi	Saiful	Alam	Yousef	Salem	Alharbi
Mohammad		Alshehri	Mohammad	Raja Ismail	Al-Soeidat
Donald		Azuatalam	Shubhekshya		Basnet
Meriam	Gay Valendez	Baustista	Sanat	Kumar	Biswas
Helen	E	Bogaty	David		Bolst
Niras		Cheekottu vayalil	Rohnil		Chand
Qingqing		Cheng	Michael		de Ridder
Tran	Hiep	Dinh	Mohsen	Fadaee	Nejad

Raphael		Falque	Ehsan		Gatavi
Amir		Ghabrial	Sahand		Ghavidel
David		Grenet	Ashanie		Gunathillake
Jiajia		Guo	Tingting		He
Jingjie		Huang	Mosarrat		Jahan
Jignesh		Kakkad	Chanditha		Karunanayake
Mansoor	Ali	Khan	Mansour		Khelghatdoust
Guohao		Lan	Hadi		Lomei
Rui		Ma	Carlos Andres Macana		Moreno
Daniel		Mackinlay	Subir		Majumder
Behnam		Maleki	Frederick		Marlton
Gary		Miller	Abdullah	Al	Nahid
Yucen		Nan	Appu	Rshikesan	Paduthol
Thuy	Thi	Pham	Cokorda	Rai Adi	Pramartha
Sohaib		Rafique	Digvijay	Singh	Raghuvanshi
Christian		Reeks	C. M.	F. S.	Reza
Sayed	Ahmed	Royel	Ahmad	Abdallah	Salah
Epona		Schweer	Avinash	Kumar	Singh
Dilpreet		Singh	Ram	Kuber	Singh
James	Patrick	Slack-Smith	Daobilige		Su
Antonio	Cristo Suarez	Rodriguez	Madhumita	Abhijeet	Takalkar
Patrick	Kin Man	Tung	Mushfika	Baishakhi	Upama
Huijun		Wu	Lingxiang		Wu
Zhang		Yongxi	Sean	Isaac	Young
Sharon		Young	Chongpu		Zhai
Jianwei		Zhang	Yuan		Zhang
Weizheng		Zhang	Teng		Zhang
Linchao		Zhu			

Associates

We have nine new associate members

Hasen		Ali	David		Boardman
Peter	H	Cosman	Tobin	Charles	Harding
Sarah		Lawrie	Bin		Liang
Aibek	S	Niyetkaliyev	Sonja		Stuedli
Dan		Xiao			

Student Members

We have 14 new student members.

Hadi		Alkadan	Anthony	Julius	Borla
Nishat	Islam	Brishty	Nicholas		Bulmer
Nicholas		Chetty	Luciano	Vito Peter	Colagiuri
Peibo		Duan	Jason		Hodges
Raguparan		Karthigesan	Chenshuo		Ma
Keenan		Pey	Adam	Christopher	Smallhorn
Rama	Krishna	Vaddepalli	Mang		Yu

Bruce Poon – e-mail bruce.poon@ieee.org – extracted this data from the IEEE's SAMIEEE data-base, which isn't easy. Converting what comes out into alphabetically ordered lists of names grouped by grades is now a lot easier than it was, thanks to Bruce.



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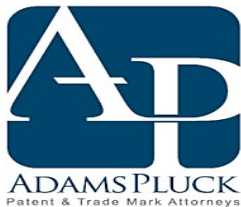
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