



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 fifth newsletter I've edited.

This one is being edited with a newly downloaded copy of almost the very latest version of Libre Office – 5.0.6.3 - updated since the last edition of Circuit.

The Education Chapter has won the 2016 IEEE Education Society Chapter Achievement Award

They get a \$1000 prize to spend on chapter activities, so it's serious.

See Sasha Nikolic's pages 16 and 17 below. Sasha wants me to emphasise that the committee did the work. Strangely, nobody else from the committee has been in contact to confirm this. They must trust Sasha to do some of it on his own.

Macquarie University has set up a Women in Engineering Student Affinity group, and the University of New South Wales is also trying to set one up.

Our secretary, Dushmantha Thalakatuna, has done some work for CommScope in Australia, and tells us that CommScope is planning to hire a few RF engineers to work at Bella Vista, NSW.

If you are interested in learning more about the opportunities available, please contact Leanne Isabella at CommScope <leanne.isabella@commscope.com> or 0410265534.

National Science Week Activities

As a consequence of the announcement by Engineers Australia that they will not be conducting Engineering Week nationally in 2016, the NSW Section committee has decided to participate in the National Annual Science Week in 2016.

The dates set for this activity are 13th to 21st August, 2016.

The IEEE NSW Section participation will take the form of various activities being conducted in schools within the educational theme of STEM, and the Science Week theme of “Drones, Droids and Robots.” These activities can be provided in both primary and secondary schools, and a number of schools have already indicated their interest in having IEEE members come to their school for these events.

The National Science Week organisation does have considerable funding available nationally to assist initiatives from various contributors and participants.

To avoid any confusion or misunderstandings in our communications with the NSW organising committee of the National Science Week programme, any members who are interested in contributing to this activity are requested to advise me of their intentions to participate, so that we can minimise any duplication (and misunderstandings) of communications between our respective organisations. With this being the first time we have formally gone down this path let us make it as simple and easy for everyone as we possibly can.

Dr Graeme Gwilliam
Education Activities Chair
NSW Section
gb.gwilliam@ieee.org

IEEE “Teacher In Service Programme” (TISP/TSSP) ACTIVITIES

The NSW Section has been conducting IEEE TISP Education Activities programmes since 2013, when a workshop was conducted in Sydney by representatives of the IEEE Education Activities Board. In NSW, to avoid any misunderstandings or ambiguity, this programme is promoted with the title “IEEE Teacher/Student Support Programme, (TSSP)” as the expression ‘Teacher-in-Service’ has a particular meaning in the NSW education system.

These programmes have consisted of;

- An introductory TISP workshop conducted in October, 2014 by representatives from the IEEE Education Activities Board, where over 50 individuals, including NSW Section members, together with representatives from the government, Catholic and Independent school education systems, attended.
- A school workshop where 12 teachers attended at Canobolis High School in Orange, NSW, in 2014.
- Workshop presentations at the annual Industrial Arts Teachers Association (IIATE) Conference in Sydney in 2014 and 2015, where over 100 school teachers have been shown how to access and use the IEEE, Tryengineering and Trycomputing lesson plans and resources.

Future activities in 2016 include;

- Workshops at the annual IIATE conference again in Sydney in October.
- A presentation to the annual Science (Physics) Teachers Association in Sydney in June.
- A presentation to the annual NSW Mathematics Teachers Association in Wollongong in September, which is yet to be finalised.
- School based activities including workshops and classroom assistance to teachers and students as required throughout the state.

The objectives of all of these activities are to ensure that the STEM school teachers in New South Wales have the benefit of using the IEEE resources made freely available to them from the IEEE Education Activities Board. All school teachers and students in the state should have this opportunity.

Students and teachers will benefit from having the technical expertise made available to them from suitably trained IEEE members, to better understand the applications and benefits of STEM education, together with being aware of technologies of to-day, and the opportunities that await them in the future.

Within New South Wales we currently have over 20 IEEE members trained to conduct TSSP activities, and many of these have participated in the programme activities over the past 3 years.

This programme is seen as being of great importance currently in school education, and the interest level taken by school teachers is increasing as more become aware of all the resources made freely available to them. Now that we have an active programme running, we are in need of more members to join in providing the best service we can to the school teachers of NSW in all the schools, especially those in county and regional areas. Training for IEEE members is provided, usually by participation in workshop presentations under the guidance of an experienced presenter.

A register is established of all the NSW IEEE members who are first interested, and then trained in conduct these activities in their local schools, or regional training centres. If you wish to have your name added to the 20 already registered, please advise the undersigned to arrange for your participation in any of the 2016 activities, for initial training, or registration if you are already trained.

When requests for assistance are registered from schoolteachers, or schoolteachers are made aware of these opportunities, a coordination procedure will be implemented to match a trained presenter to the requesting teacher so that they can then personally make their necessary local arrangements. Funding is available for out of pocket expenses of presenters, including materials, which will be arranged prior to each activity.

Dr Graeme Gwilliam
NSW TSSP Coordinator
gb.gwilliam@ieee.org



POWER & ENERGY SOCIETY CHAPTER UPDATE

Call for Outstanding Engineer Award Nominations

The IEEE Power & Energy Society New South Wales Chapter Outstanding Engineer Award is presented annually to a PES NSW Chapter member judged to have made a significant contribution to the engineering profession.

Nominations will be judged on the following criteria:

- Outstanding technical contributions to the power engineering profession.
- Significant contributions to the local community representing the power engineering profession.
- Outstanding contributions in the area of power engineering education.
- Outstanding professional and leadership contributions to the power engineering profession.
- Service to the Power & Energy Society and/or IEEE, particularly to the PES NSW Chapter.

Nominations should be sent to nsw.pes@ieee.org and received by 15 August 2015.

Call for Nominations for Office Bearers

Nominations are sought for positions in the PES NSW Chapter, namely: Chair, Vice-chair, Secretary / Treasurer and General Committee (four committee positions). Nominations should be sent to Greg Andrews Email: greg@computer.org by the 31st August 2016.

There's a general purpose nomination form for all chapter and society positions on page 8.

Free Student Membership

IEEE Student Members who have not previously been Power & Energy Society members can join for free for the first year. This offer is open until 15 August 2016.

More details are available at <http://www.ieee-pes.org/pes-communities/membership-grades/student-members>

IEEE POWERCON 2016, Wollongong

The IEEE PES International Conference on Power Systems Technology (POWERCON) 2016 will be held at the Novotel Wollongong Northbeach from 28 September to 1 October 2016. This conference is held every two years in the Asia-Pacific Region, alternating between locations inside and outside of China.

One feature of the conference will be a focus on industry participants on Friday 30 September. Paper sessions and keynote speakers with greater applicability to industry will be selected for presentation on this day. A special, one-day registration rate is available for the Friday, which also includes the conference dinner in the evening.

Early bird registration finishes on 31 August 2016.

More information is available at ieeepowercon.org

IEEE APPEEC 2016, Xi'an

The IEEE PES Asia Pacific Power and Energy Engineering Conference (APPEEC) 2016 will be held in Xi'an, China, on 25 - 28 October 2016.

Further information is available at www.ieee-appeec2016.org

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 last time it was held in Australia was in Perth in 2011.

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

Second IEEE PES Student Congress - Kuala Lumpur

The Second IEEE PES Student Congress will be held in Kuala Lumpur, Malaysia on 15-17 August 2016. The congress will cover technical lectures, IEEE/PES non-technical workshops and both technical and historical field trips. More information available at 2ndpesstudentcongress.ieeemy.org

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



Nomination Form for one position in the IEEE NSW SECTION

**Section Executive Officers to be elected by electronic vote (by the Members);
Elected positions by Chapters and Affinity Groups (Chair/Vice
Chair/Secretary/Treasurer); Non-elected positions (appointed Officers).**

Closing date Wednesday 31 August 2016 midnight

NOTE: Chapter and Affinity Group Committee Executive positions are elected by the respective Chapter Members.

Nomination Form Instructions:

Before completing the form, review the following guidelines for nominating a volunteer Candidate:

- (a) Nominators must contact their nominee before submitting the form and confirm their acceptance of the time and other commitments required for the position.
- (b) Nominees must have had at least 2 years on the Committee to nominate for the key positions of Chair, Vice Chair, Treasurer and Secretary.
- (c) Nominees for Section Executive positions should be Senior Member or higher
- (d) Self nominations require the submission of additional information e.g. a CV or the name of a Senior Member of the IEEE prepared to act as a referee.
- (e) If you are nominating for more than one position, separate forms should be submitted.
- (f) Please note the closing date, completed forms to be e-mailed to:

Greg Andrews

Email: greg@computer.org

or snail mail to PO Box 114, French's Forest NSW 1640

Nominee Contact Information

First Name:

Surname:

IEEE Email or
other address

Address Line 1:

Address Line 2:

Address Line 3:

IEEE Member No.

POSITION/S REQUESTED:

Nominator Contact Information

First Name:

Surname:

IEEE Email or
other address

Address Line 1:

Address Line 2:

Address Line 3:

IEEE Member No.

UNSW ELSOC and TWEET Industry Night 14 April 2016

The Event was opened by Associate Professor Julien Epps, with additional welcoming remarks by Nivaaz Kaur, Industry Liaison for UNSW TWEET (The Women in Electrical Engineering and Telecommunications). ELSOC is the University of New South Wales Electrical Engineering and Telecommunications Society.

There were well over twenty participating Organisations including Aurecon, Jacobs, Engineers Australia, Cochlear, Schneider, ADF, RIBIT, Dolby, Optiver, BAE Systems, ANIMALLOGIC, Silanna, Saluda Medical, CUNDALL, ERICSSON, Professionals Australia, and IEEE NSW Section.

The event was attended by almost 300 postgraduate and undergraduate students from the school of Electrical Engineering and Telecommunications. Participating organisations had the opportunity to talk with students about career paths, internships, skill requirements, work opportunities and requirements as well as answer other employment related questions.

The IEEE NSW Section was represented by Olly D'Souza, Leon Ascone, Stephen Joyce, Georgios Konstantinou and Tony Zaglas. If your organisation is interested in participating in future events you can contact Olly D'Souza or myself.

After the exhibition all participants were invited to a BBQ.



More photos https://www.facebook.com/eeunsw/photos/?tab=album&album_id=1167097506654914

I would like to congratulate all the UNSW ELSOC and TWEET volunteers for an excellent event and thank all the participating organisations. I would also like to extend a special thanks to Profs Eliathamby Ambikairajah and Julien Epps, Dr Tim Moors and UNSW for inviting IEEE NSW Section to participate at the event. Also a special thanks to Angus Fletcher of ELSOC for his assistance.

Submitted by Tony Zaglas
IEEE NSW Section Awards and Recognition Chair



IEEE-SA INDUSTRY FORUM 17 May 2016

The first IEEE Standards Association(IEEE-SA) Industry Forum was held at the Sydney Mechanics School of Arts on 17 May 2016. The Forum was chaired by IEEE NSW Government & Industry Relations Chair and SP/COM/OE Chapter Chair Olly D'Souza and was attended by about 35 delegates.

The opening speaker was Sri Chandrasekaran Director, Standards & Technology IEEE India who gave an overview of IEEE and IEEE-SA and outlined the Importance of Standards to Industry & Govt. He further talked about the link between Standards and Economic Growth, how Standards Improve the Quality of Life, Define the Future and the need for Open Standards. The process of Standards Development and Approval was discussed as well as Conformity Assessment.

The Global presence of IEEE-SA as well as collaboration arrangements were detailed and the procedures for participation set out. Some IEEE Standards were treated in more detail including NESC, IEEE C95.7 and IEEE 1680.

The second speaker was Ms Jessica Curtis from Standards Australia. Her presentation included some history of Standards Australia from its formation in 1922, the role and relationship with the Government and International Standards bodies. She also covered the process of Standards Development, Accreditation and Funding. The Standards Nominating Organisations and their relationship to Standards Australia were covered as well as the procedures for participating in the Development process.

There was an extensive question and answer session after the presentations after which refreshments and finger food were available presenting delegates with networking opportunities.

If you would like to participate in future/ongoing IEEE-SA discussions and events or a copy of the presentations please contact Olly D'Souza or myself.



Sri Chandrasekaran IEEE-SA



Jessica Curtis, Standards Australia

I would like to thank Sri Chandrasekaran, Jessica Curtis and representatives from Standards Australia and Engineers Australia for their valuable contributions as well as those that attended and participated in the discussions that followed the presentations.

I would also like to thank Olly D'Souza for organising and Chairing the Forum.

Submitted by Tony Zaglas
IEEE NSW Section Awards and Recognition Chair



***Thinking Machines in the Physical World (SSIT),
University of Melbourne, 13-15 July 2016***

(<http://21stcenturywiener.org>)

Can driverless cars make ethical decisions? Should technologists warn communities of the effects their technologies are about to have? Can computers already think for themselves? These and many more questions are being examined at a cross-disciplinary gathering in Melbourne 13-15 July. "Thinking Machines in the Physical World" is being sponsored by SSIT and the University of Melbourne (along with the Control System Society and Systems, Man, and Cybernetics). The common thread to these questions is the work of Norbert Wiener, an MIT professor who founded cybernetics, the "cyber" in everything. It follows a successful launch of the series in Boston in 2014.

Keynotes include:

- . What connects modelling of national economies, EEG processing, localization of GPS-denied drones, evaluation of the efficacy of regimes for restricting domestic water usage, estimating the shape of an underwater towed array? Professor Brian Anderson from ANU will look at filtering technologies of the past century, from the Wiener filter on.
- . Can technology help democracy? James Hughes from the Institute for Ethics and Emerging Technologies looks at whether algocracy, or cyborg democracy, enabled by artificial intelligence and human-computer co-evolution, could aggregate popular desires without the biases of current institutions, and ensure the efficient workings of a gradually withering state.
- . How can machine learning help analyse molecular data from cancer tumours, features is in the tens of thousands, but samples in the hundreds? Professor Mathukumalli Vidyasagar, a Fellow of the Royal Society, at the University of Texas at Dallas, will consider open problems in transfer learning rising from the advent of "next generation" sequencing in biology.
- . Robots are changing our lives, but are they making them easier? Professor Judy Wajcman, a sociologist from the London School of Economics looks at our fascination with technology and our desire to save time. She also asks whether we need a feminist reimaging of robots, or a female Dr Who to challenge the Silicon Valley vision of technology.
- . Was the Watson computer defeat of two human Jeopardy champions in 2011 a tipping point? IBM's Dr Jürg von Känel looks at this new era of cognitive computing 5 years in, including implications on business, education and research.

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



Life Members Affinity Group

At the AGM in November 2015, Bill Sloman was elected as Chairman and Colin Elston as Secretary. It was not a fiercely fought election. Other members are invited to join the committee to help ensure an active 2016 for over 100 members.

The initial activity for 2016 was a Sunday luncheon (15 May) at the Boiler House at the Hydro Majestic at Medlow Bath. Even though the trains were not running, everyone had an enjoyable day and it was a great success.

Future luncheons will continue to be at venues, which are accessible by Public Transport, where possible.

From the comments of some of our non Sydney members, that the venues are out of Sydney, i.e. on the South Coast, up the Mountains and Central Coast or Newcastle.

It planned that the next luncheon be in August – September time frame.

Any suggestions for venues and dates would be appreciated.

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 fulfil them.

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

Colin Elston

Secretary.

Joint Chapter of Broadcast Technology, Consumer Electronics and Product Safety Engineering Societies.

NSW Section has formed, in December 2015, a Joint Chapter of BT, CE & PSE Societies with just under 50 members.

The Joint Chapter's first activity was to arrange for a member, Paul Robinson of Product Safety Engineering Society, to present at the joint lecture programme with IE(Aust) on March 10 on "Child Safety: Button or Coin Batteries".

All registered members were sent an email informing them of this event and welcoming them to the Joint Chapter.

The Joint Chapter will be working closely with SMPTE (Society of Motion Picture and Television Engineers) to provide an enhanced programme (activities and lectures) for both groups.

SMPTE has a conference and exhibition in Sydney next year. The Joint Chapter will be involved in planning and running of the conference. Any member wishes to be involved, please advise.

The Joint Chapter has a much wider mandate than just 'entertainment' so other areas and topics need to be considered. The committee would welcome suggestions and contacts.

We also have a need to make the Joint Chapter and the IEEE relevant to 'prospective' members, especially secondary and tertiary students.

To make the Joint Chapter vibrant, we need the involvement of members, either to organize an activity or serve on the committee. If you feel that you stand the challenge, please step forward.

The Joint Chapter has the email nswieee.bt-ce-pse@outlook.com . Could please ensure that your spam filter does not block any emails that we may send you?

Colin Elston

Chairman.

Education Society

Chapter Update

I am pleased to inform you that the NSW chapter has been selected by the IEEE Education Society to receive the 2016 IEEE Education Society Outstanding Chapter Achievement Award. This award is given to a chapter of the IEEE Education Society and recognizes chapters, through their members, who have made outstanding contributions to programs of interest to students and practitioners.

The citation reads: *for experiencing an 80% increase in membership across two years through frequent innovative technical meetings, supporting women in engineering education and providing development opportunities to teaching assistants.*

The presentation of this award is scheduled for the Frontiers in Education annual conference, which will be held in Erie, Pennsylvania, USA, October 12-15, 2016. This award will be presented at an Awards Banquet on Friday, October 14, 2016. More information about the conference is available <http://fie2016.org/>

For all the latest news and events see the **chapter website**:
<http://sites.ieee.org/nsw/education-chapter-ed/>

If you use social media and would like to keep up with the latest local discussions on engineering education, join the chapters **LinkedIn group**:
<https://www.linkedin.com/groups/IEEE-NSW-Education-Chapter-6791976>

Promotions

Rebate for a IEEE Education Society Conference

NSW IEEE Education Society members can apply for a rebate to attend either the IEEE Frontiers in Education or TALE 2016 conference. Rebate information available from the chapter website

Upcoming Events

28th of June 2016 - IEEE NSW Learning and Teaching Forum

This event will be held at Macquarie University on Tuesday the 28th of June, 2016. Presentations and discussion will focus on how we can improve the learning experience, the benefits of engineering education research, and challenges of female engineers involved in teaching. Speakers include Sasha Nikolic (Chapter Chair), Prof. Iain Collings (H.O.D of Engineering MQU), and Azadeh Safari (Past Chair WiEE). Please register at: <https://meetings.vtools.ieee.org/m/40260>

13th of July 2016 - IEEE Casual Teacher Forum

This event will be held at the University of Wollongong on Wednesday the 13th of July at 10:30am. This event is run by casual teachers for the benefit of casual teachers. The casual teachers present topics that support personal development and help provide advice on issues casuals face in the classroom Presentations include:

- How to detect plagiarism?
- Teaching common first years: From ‘Why am I learning this?’ to ‘Why am I only learning this?’

Please register at: <https://meetings.vtools.ieee.org/m/40265>

Events Held

- Editor-in-Chief of IEEE Transactions on Education, Prof Jeffery Froyd

On the 9th of June eleven members participated in an online workshop (using iSee) with Prof Froyd to discuss what it takes to publish a high quality engineering education journal. Participants gained an insight into the three different areas of scholarship and their requirements for publishing within the IEEE Transactions on Education. Participants examined and discussed previous research abstracts and gained valuable insight towards the review criteria. Participants were also treated to suggestions of good research ideas.



Please consider joining the Education Society!

Chair, NSW Chapter - IEEE Education Society
Sasha Nikolic



Joint Institutions Lecture Program 2016

Here's what has been set up so far in the joint lecture program.

Date	Subject
July 14, 2016	TBA
July 28, 2016	TBA
August 11, 2016	Large scale battery storage
August 25, 2016	TBA
September 8, 2016	TBA
September 22, 2016	Student prize presentations

As more lectures are organised, IEEE members will be notified by eNotice.

The lectures will also be listed here (amongst a lot of other events).

<https://www.engineersaustralia.org.au/events-all/c/115/l/253/l/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 17 members who have moved into the Senior Member category.

Charles	A	Barrett	Darren	R	Burrowes
Bill	Donald	Carman	Raymond		Chiong
Philip	P	De Chazal	Kam	H	Fung
Amit	K	Gupta	Bram		Hoex
Samsung		Lim	Peter		McLean
James	Cooper	Munro	Alan	M	Rankins
Montserrat	B	Ros	Lei		Wang
Chandana	Prasad	Withana	Darren	John	Woodhouse
Luping		ZhouH			

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 two new life senior members

Sadanan Ramakoti and Anthony William Sloman

The second one does happen to be the current editor of Circuit, who can attest that Ray Brown ensured that the upgrade process was painless.

Members

We have 156 people who are new members or have been upgraded to member status.

Thanu		Abayaratna	Chula		AbeySirinarayana
Danny		Acimovic	Mohammad	H	Aghdaei
Igor		Aharonovich	Hossam		Ahmed
Keith	A	Anderson	Wei		Bao
Timothy	J	Batten	Allen	M	Benter
Shashika	Lakmali	Biyanwilage	C	I	Blake
Kyle		Blay	Michael	J	Boers
Alan		Bowen-James	David	J	Bowman
Paul	P	Breen	Neale		Carlyon
Robert		Carman	Leo		Carr
Diego		Carrasco	Katherine	E	Cassidy
Catherine		Chan	Hsing-Chung		Chang
Stephen	W	Chase	Jianwen		Chen
Ling		Chen	Hon	Wah	Cheng
Igor		Chernishov	Philip		Chung
Yuk	Y	Chung	Bernard	J	Clark
Dean	A	Cooper	Nguyen	Dinh	Cung
James		Davies	Barry	James	Davis
Martin	Rolf	de Groot	Andrew		Docherty
Renate		Egan	Arnfinn	Aas	Eielsen
Christopher		Escott	Malcolm	J	Faed
Allan		Falleiro	Michele	E	Febo
Irosh		Fernando	David	H	Francis
Bill		Fulton	Stan		Gajdosik
Junbin		Gao	Lawrence		Gatt
John		Graham	Ian		Griffiths
Brian	R	Grundy	Feng		Gu
Vitor	Campanholo	Guizilini	Mandar	L	Gujrathi
Yi		Guo	Nicholas	Christian	Gurieff
Gregory Jean-Louis Michael		Hellbourg	James	C	Herbert
Ashley		Horne	Ruiqi		Hu
Stephan	M	Immerz	Rafiqul		Islam
Higa		Junko	Muhammad Ashad		Kabir

Henner		Dr	Kampwerth	Djurica	S	Karan
Vitaly			Karatyubin	Vellimalai		Karuppanan
John	Wade		Kearney	W		Keerthipala
Roger		G	Kermode	Jinman		Kim
Fumihisa			Kimura	Rod		Kinnish
Amit			Kumar	Cat	M	Kutay
Tim			Lammers	Terrence	J	Lampard
Jessica			Lee	Liwei		Li
KaiChin			Lim	Raymond	H	Louie
Fengji			Luo	Philip	Q	Madigan
Ian		R	Manchester	Gregory		Mar
Timothy			Marshall	Andrew		McLaren
M		G	Mcculloch	Andrew	N	Mears
Chukwuma		O	Meka	Yousri W	A	Mikhail
Steven			Mok	William	Thomas	Monks
Stephen		J	Moore	Richard	Scott	Morrison
Huy	Hoang		Nguyen	Diep	Ngoc	Nguyen
Stanko			Opsenica	Dubravko		Palecek
Zorba	Jeremy		Parer	Jigesh		Parneria
Robert		J	Paton	David	Neil	Payne
William			Pickup	Oscar	R	Pizarro
Samir			Pizovic	Michael		Pollard
Ahmad	Moh'd		Qasem	Brendon		Rae
Mohsen			Rezvani	William	Hector	Robertson
Omer Abd	Alla	Ali	Safi Elnour	David	Daniel	Satchell
Kah	Phooi		Seng	Rajan		Shankaran
Anil			Sharma	Vyomesh	M	Sharma
Mahyar			Shirvanimoghaddam	Wing	Yan	Siu
Koon	Yu		Siu	Trevor	A	Smith
Stephanie		L	Smith	Taylor		Smith
David		C	Snowdon	Michael		Stevens
Peter		L	Storey	Weidong		Su
Thavanathan			Sujendan	Victor		Tam
Fred			Teng	Sankika		Tennakoon
Ken			To	Bill		Tocher

Suryanarayana		Uppala	Nagarajan	Valanoor
Antonio	Enrique	Velasco	Teresa A	Vidal-Calleja
Xiuying		Wang	Peter	Warhurst
Leslie	Roderick	White	Joseph	F Winter
KinWah		Wong	Gregory	Leigh Wright
Xiaofeng		Wu	Jia	Wu
Yan		Xu	Xinzhi	Yan
Yi		Yang	Guangsheng	Yu
Dong		Yuan	Rongkun	Zheng
Zheng		Zhou	Mouataz	Zreika

Life Members

We have nobody who has moved into the life member category in the last quarter

Graduate Student Members

We have 137 new graduate student members.

Rana		Abbas	Mahmoud	Abdolhoseini
Dimitrios		Agiakatsikas	Hassan	Abduljabbr Al-shanawah
Mahboob		Alam	Asma	Musabah Alkalbani
Raed		Alsurdeh	Kanchana	Amarasekara
Nadil		Amin	Ilyana	Anwar
Ernauli	Christine	Aprilia	Perzila	Arab
Varun	Vinod	Arur	Amit	Aryal
Shahzad		Asif	Ibrahim	Burhan
Matthew	John	Cameron	Shu	Lin Chen
Yen-hsun		Chen	Oliver	Michael Cliff
Dat		Dang	Alok	Dave
Tian		Ding	Quan	Do
Diana		Dominic	Zheyuan	Du
Giovanni	Salvatore	Durso	Jeremy	Paul Every
Shilun		Feng	Azade	Fotouhi
Min		Fu	Weijie	Gao
Jennifer		Gielis	Mingming	Gong

Feng		Gu	Yifan		Gu
Gaofeng		Guan	Jose Luis	Guerrero	Gallegos
Philip		Gun	Hana	A.	Halim
Sumaiya		Hasan	Lok	Sang	Ho
Md.	Selim	Hossain	Walayat		Hussain
William	Ferrer	Infante	Atif		Iqbal
Md	Ashraful	Islam	Haider		Jassim
Asanga	Priyankara	Jayawardana	Sanjay		Jha
Meena		Jha	Benjamin		Johnston
Jerrin		Jose	Thisandu	Dulhara	Kahingala
Dean	Farai	Kaila	Anup		Kale
Donna		Kocherry	James	Ju Heon	Lee
Liyuan		Li	Weijie		Li
Shaoyang		Liu	Ruidong		Liu
Wei		Lu	Ling		Luo
Wenshuo		Ma	Paul	J	McMahon
Khandaker	Md Sydur	Rahman	Josh		Merritt
Usman	Tariq	Mirza	Nur	Nazurah	Mohd nasir
Mahdi		Moosazadeh	Rebecca	Erin	Morgan
Ahmad		Murdani	Muhammad	Tariq	Nazir
Nenad		Nestorovic	Hong Viet	Phuong	Nguyen
Hamed		Nosrati	Tuale	Andrew	Omagba
Shovon		Pal	Jonathan	Clive	Palmer
Timothy	Michael	Patten	Minh	Nguyet	Pham
Himath		Priyananda	Zahra		Rahimpour
Parisa		Ramezani	Tianrong		Rao
Pengcheng		Ren	Shariq		Riaz
Shannon	Andrew	Rios	Md	Musfequs	Salehin
Anup	Kumar	Sarker	Ransalu		Senanayake
Jitesh		Sharma	Robert		Sison
Anastasia	Hertanti	Soeriyadi	John	Long	Soon
Yilun		Sun	Yik	Ren	Teo
Jingnan		Tong	Duc		Tran
Victor Ming	Loon	Tsai	Tajnin	Kamal	Turna
Jack		Umenberger	Satya	R	Vedantam

Xiaopeng	Wang	Haishuai	Wang
Yifan	Wang	Shu	Wang
Zheng	Wang	Qian	Wang
Yiying	Wei	Yuan	Wei
Eric	Wei	Harith	Roshana Wickramasinghe
Xiaobin	Wu	Chixin	Xiao
Shan	Xue	Wenjian	Yang
Haitao	Yang	Chih-Yu	(John) Yang
Xiaoyu	Yang	Yazhou	Yao
Lin	Ye	Muhammad	Ilyas Yousaf
Tao	Zhang	Neng	Zhang
Yongtuo	Zhang	Jing	Zhang
Hongyun	Zhang	Haimin	Zhang
Lou	Zhao	Yang	Zheng
Yi	Zheng	Yi	Zhong
Qinggaozi	Zhu	Yuxiang	Zhu
Yifan	Zuo		

Affiliates

We have ten new affiliate members

Boualem	Benatallah	Anthony	D	Horton
Xiaodi	Huang	Louis	Evan	Melanie
Michael	George	Michael	Rhys	Preston
Robert	Schulz	Gary		Sutcliffe
Raihan	Wadud	Ingo	Marc	Weber

Associates

We have no new associate members

Student Members

We have 75 new student members.

Abdollah			Ahmadi	Mohammad	Ahmad	Alkhalaileh
Jasper	Chi	Ho	Au	Yu	`	Bai
Andrew			Batley	Helen	E	Bogaty
Andrew			Chan	Hugh		Chan
Clement			Chan	Guangwei		Chen
Philip			Chu	Jeffrey	Thomas	Cribbin
Dilini	Hansika		Darmawardana	this space intentionally left blank		
Epalawattege Sudam Nimantha			Dias	Quynh	Ngoc Thuy	Do
Huan			Fu	Douglas	Roy	George
Neha			Hanif	Kyaw	Zin	Hein
Yen Nee			Ho	Ruihang		Hou
Shilpa			Kala	Matthew		Kessanis
Mansoor	Ali		Khan	Ratanak	Phalla Kim	
Adrian			Konkol	Grayson		Ladmore
Tommy			Le	Ki	Myung Brian	Lee
Kevin			Li	Yue		Li
Bin			Liang	Kuldip		Limbu
Jake			Linnenbank	Hangyue		Liu
Bingzhuo			Liu	John	Michael	Mackey
Luke	Thomas		McDonald	Klane		Mcilwain
Celso	Justin		Milne	John		Nguyen
Chayut			Orapinpatipat	Calvin James	Sherwood	Peck
James			Pinnock	Mithun		Powar
Richard	Thomas		Pozza	Yuqiao		Qian
D	M	Motiur	Rahaman	Ryahn		Rahme
Nursabrina	Ameerah	Binti	Ramli	Bryce	James	Robilliard
Hamid			Rokni	Richard		Rudd
Apurva	Satish		Shah	Jeevan		Shah
Elia	Shafiah	Shamsul	Liza	Shoneet	P	Singh
Satwinder			Singh	this space intentionally left blank		
James	Patrick		Slack-Smith	Rowan		Smith
Harrison			Smith	Hrishikesh		Srinivas

Roman		Stupak	this space intentionally left blank		
Antonio	Cristo	Suarez-Rodriguez	Scott		Tillman
Joseph	John	Trad	Vinh	Phuc	Tran
Isaac		Vorreiter	Shoujin		Wang
Nicholas		Welsh	Arjan	Max	Wilkie
Kevin		Wu	Lei		Xu
Bin		Ye	Amiruddin	bin	Zainuddin

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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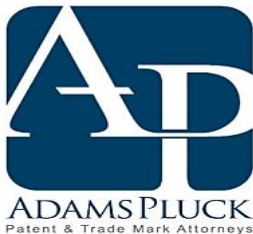
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