

IEEE QUEENSLAND SECTION NEWSLETTER

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In this issue:

Section Chair's Report	2
Newsletter Editor's Report	3
Webmaster's Report.....	4
Membership Development Report.....	5
Student Activities.....	6
Computer Society.....	7
Control Systems/Robotics and Automation Societies	8
Microwave Theory & Techniques/Antennas & Propagation Societies	9
Power and Energy & Dielectric and Electrical Insulation Societies.....	10
Women in Engineering	14
Young Professionals	15
Griffith Gold Coast Student Report	16
QUT Student Report	18

Section Chair's Report



Daniel Eghbal
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Each year, IEEE Queensland Section supports the Queensland electrical engineering fraternity including the Qld Branches of the Electrical College of Engineers Australia and the ITEE College, the Qld Chapter of the EESA and IET (Qld). This is an annual event to celebrate the achievements of the past year and the contributions made by the participants.

In 2018 myself and 10 others from the section attended the event on 28 June. As the chair of the IEEE Queensland Section, I had the privilege to do the roll call for past IEEE Section Chairs. Below is a group photo of IEEE delegates who attended the event.

I was also very pleased to meet see Keith Callaghan, David Allan and Jim Simmers, three of the 25 IEEE life members in Queensland in the event.



From Left: Nazanin Nadian, Rob Makaremi, Tapan Saha, Nilesch Modi, Daniel Eghbal, Mohammad Etesami, Chandima Ekanayake, Sudarshan Dahal, Marie-Luise Wille, Vaughan Clarkson

Two important IEEE elections are ahead of us:

- 1) Election for 2019 IEEE President Elect and I am sure many of you have already received emails from each of the candidates. Professor Toshio Fukuda from Region 10 is one the candidates for IEEE President Elect 2019-2020. This is the first time that Region 10 has a candidate for IEEE President Elect. I strongly encourage you to consider patriating in the election when it opens in August. You can find more details on each candidate from [here](#):

In addition to the president elect, there are several other leadership positions for which you can submit your vote. More details on the IEEE Annual Election can be found [here](#):

- 2) Election for IEEE Region 10 director Elect (to serve 2021-2022). The candidates for the IEEE Region 10 (Asia and Pacific) Director Elect are:
 - Deepak Mathur (Nominated by IEEE Region 10)
 - Norliza M Noor (Nominated by IEEE Region 10)
 - Ziauddin "Zia" Ahmed (Nominated by IEEE Region 10). Dr.Zia Ahmed is currently Australia Council Chair. This is a great opportunity for Australasian members and I strongly encourage you to consider participating in the election.

Historically, the rate of participation in the elections has been very low from Australia. This is a great opportunity for all of us to participate in an organisation that we're all a member of. You will receive the online links in August and it only takes a few clicks to submit your vote.

I also would like to remind you that Queensland Section is hosting the IEEE Women In Engineering International Leadership Summit (WIE ILS), 26-27 November 2018 in Brisbane. This is the first time that a WIE Leadership Summit is being held in Australia and it will create a great opportunity for our WIE members. Please check the [website](#) for more details.

As always, please feel free to contact me or any of our committee members, if the section could provide any support to your industry or research work.

Newsletter Editor's Report



David Russell
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Welcome to the second IEEE Queensland Section newsletter for 2018.

Most of our groups have been very active with numerous activities being conducted and planned for later in the year. The newsletter details these activities. I encourage all members to have a good look at the events coming up and pencil in some time in your diary and get along to the event.

One of the exciting events coming in November is the **IEEE WIE International Leadership Summit**. The Women in Engineering team have been working hard to ensure this conference is a great success.

Please think about attending yourself and encourage friends and colleagues to join you for a great couple of days of networking and gaining insights from speakers with a wealth of experience.



IEEE Women In Engineering International Leadership Summit

IEEE WIE ILS 2018

Encourage | Empower | Engage

Brisbane, Australia

26-27 November 2018

Brisbane Convention & Exhibition Centre

<http://sites.ieee.org/wieils-aus-2018/>



Webmaster's Report



Farzad Farajizadeh
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My name is Farzad, *IEEE Queensland Section Webmaster*. I have written this report to let our members know about my ideas and the issues that I faced after six months of working in this role. This report highlights two matters. Firstly, I have some ideas to help keep the website up to date. Secondly, I hope we can improve communication to members and improve through effective use of the website.

I highly recommended for the section's benefits and reputation of such a well-known community as IEEE, we need to effectively update the website and apply the changes that are happening in the section. It is pleasing that some members are conscientious about their role and share their new information with me in a timely manner. This helps the IEEE world see what is going on in the group and let them know who takes what responsibility each year. We need to ensure new people entering new roles update their information to the webmaster, so the website is up to date for reference of all members. In that way the website is both effective, timely and accurate. One suggestion is to ensure there is a reminder on the section's meeting agenda for all committee members to update the webmaster. If there are any other options I would be pleased to hear about them and try to implement them.

My other idea is to make a bold news banner across the website for meetings, conferences, and seminars that are coming up. If something is related to IEEE Queensland section community, it should be

effectively highlighted in the website. For example, if there were a seminar, which is founded by the section and is going to be held in somewhere such as the Gold Coast, it would be great if we could highlight the event through a banner and photos on the homepage slide show to be seen by every visitor to the website. Although it demands time and energy to update the website with these informative photos, I think it would make our website more dynamic, and useful for those who are looking for news as it is a more graphically represented. As a start, we can put some dynamic photos for events on the home page, however, it demands all members' help to send me some banners and photos representing their events.

Briefly, it would be better to ask all members to update us with their changes in a determined and more systematic way; as it will add more admissibility to the section, as well as its website. Having a more graphical representation of news and achievements will help the IEEE world to be aware of what is going on in our group. This demands every member's help to update me with each event's banner and photos.

Finally, I have to say that in this short period as a webmaster, I am extremely pleased to work with such a brilliant and humble group of people, from whom I learnt a lot. It is my great honour to hold a responsibility in this group, and I would really like to know others' opinions about the website, and any suggestions for improvement. Please, share your ideas with me.

Membership Development Report



Sudarshan Dahal
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IEEE Attracts Industry Engineers

IEEE Queensland section conducted an industry membership development seminar at Powerlink Queensland, which is a state-owned electricity transmission utility in Australia. The seminar had two parts.

The first part was to elaborate about IEEE, its membership and benefits. IEEE Queensland Section membership Development Chair Dr Sudarshan DAHAL explained how IEEE has a worldwide membership and how the aspiring engineers could get benefit from IEEE membership. He also focussed on how industries could get benefit by engaging with IEEE technical communities specially in developing appropriate technical standards and human capacity development.

The second part of the seminar was on Electrical Design Consideration of renewable energy connection into high voltage network. Experts from the utilities Mr David Pita and Mr Tian Yu Zhang presented how the connection requirement of renewables (especially solar farms) necessitates utilities to think outside the box of the usual design practice. Some of the topics covered during the talk were

- The University of Queensland Gatton Renewable Solar Farm Research Centre Technology showcase.
- Powerlink Substations HV plant standardization philosophy and package development for renewable connections: Concept Single Line Diagram, General Arrangement, Plant Schedule, Electrical Design Estimates.
- Typical electrical design calculation and studies required for renewable

connection project: Earth Grid Study, Insulation Coordination Study, Direct Lightning Protection Study, Underground Cable Rating calculation, and Electric and Magnetic Field calculation.

- Revenue metering consideration: CT performance and accuracy specification consideration.
- CB Control Switching technology applications.

The seminar was highly attended by engineers from different companies. Attendees appreciated the IEEE efforts to continue organising these sorts of opportunities to bring engineers and utilities from different areas into a common forum. Many of the engineers were positive on joining IEEE and keep engaging with IEEE initiatives.



Student Activities



Mostafa Esmaeili
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Committee:

Chair: Rasoul Garmabdari
Vice Chair: Mostafa Esmaeili

The expanding “hidden job market” in Australia often gives the cold shoulder to many qualified graduates who have devoted their time and energies overcoming the adversities of obtaining a university degree. Employers have legitimate reasons to not advertise the vacant positions they need, e.g. they do not want to reveal the confidentiality of their business, they do not want to risk investing on a total stranger, instead they may seek referral from their current employees, consult with recruiting firms, or use online tools like LinkedIn. This is a lose-lose situation for both learned individuals and entities involved; the skills of educated job hunters are wasted, and the industry remains deficient in talents, not to mention the financial loss on either side.

In spite of the intricacies imposed by the hidden job market, thousands of advertisements are being advertised every day. Yet, a good number of ex-students who hardly breathed outside the rarefied atmosphere of ivory towers feel ostracised in their struggle to find opportunities commensurate with their hard-learned skills. Moreover, acquiring an academic tenure is not only a long way away career but also requires multiple stages of stiff competitions leaving not much room for the majority of

qualified graduates. So, it should come at no surprise that many of them have no choice but to acquiesce in doing casual jobs to earn a livelihood.

One effective way to tackle all these complications is to introduce the needs of the local industries to prospective engineers while they are still living a life at university. Establishing a relationship between the university students and local industrial representatives may encourage the future scholars to orientate their learning process towards the skills that industry requires. Above all, it can help students to develop a professional network to contact employers directly when graduated.

IEEE QLD section is determined to provide a substrate for relating local industries to students by organizing a number of events, the first of which is to initiate mock interviews from actual engineering firms. Driven by the positive feedback from students of electrical engineering who took part in our event last year of mock interviews held at Griffith University, we aim to develop this event for IT and electronics engineering students with the venues in three major universities of Queensland; UQ, QUT, and Griffith

Computer Society



Amin Gharipour

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Committee:

Chair: Amin Gharipour
Vice Chair: Rajib Rana
Secretary: Rui Zeng

The Computer Society encourages all members to attend the following interesting seminars planned for the coming months:

1. Challenges of young research universities to win ARC funding and overcoming strategies. This seminar is planned for October 2018. The panel will be led by Professor Hao Wang (USQ)
2. A talk by Professor Shazia Sadiq (UQ) is planned for November 2018.
3. An online presentation by Dr. Ali Yousefian from Seoul National University is also planned for November 2018 to be held at Griffith University.

In addition, CS has decided to run regular journal club meetings starting in October 2018. The idea is to meet regularly (almost once a month) and discuss papers of general interest. Each month, the participants would agree on a highly cited or an award-winning article in a field of interest to CS society (and not one of our own!) with a Discussion Leader facilitating. Through the month, each of the participants would read the article. At the next meeting, the Discussion Leader would lead a discussion of that article, starting with his/her own appraisal. In this way, it is hoped that we could all broaden our understanding of the field and further develop a sense of community.

Control Systems/Robotics and Automation Societies



Luis Mejias Alvarez
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Committee:

Chair: Luis Mejias Alvarez
Vice Chair: Navinda Kottege
Secretary: Nikodem Rybak
Treasurer: Vacant

Brisbane hosted the biggest IEEE international robotics conference in the world. Established in 1984 and held annually, the conference received 2586 submissions of which 40% were accepted for presentation. A total of 31 workshops, 6 forums and 4 tutorials were held during the event. Papers were presented using a new interactive session format in which presenters used posters and interactively explained to a small audience during the allotted time. Spotlight videos were also used which were a 3-minute talk that pitch the key idea of the paper, these were

delivered with the conference proceedings and available online via icra2018 youtube channel. ICRA-X and Robowars were two public events that received support from the QLD IEEE chapter. This support allowed students to attend these events at a reduced cost.

The QLD Control Systems and Robotics and Automation joint-chapters made an important contribution to the success of this conference by being part of the organising committee.



Microwave Theory & Techniques/Antennas & Propagation Societies



Morteza Shahpari
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Committee:

Chair: Morteza Shahpari
Vice Chair: Antony Liu
Secretary: Konstanty Bialkowski
Treasurer: Arslan Nizami

AP-MTT chapter is pleased to have organised a range of different activities in the first half of 2018.

The Australian Microwave Symposium was held in Brisbane on 6&7 February. Having knowledgeable scholars and professional engineers at the symposium was a great opportunity for all attendees. We also organised two additional seminars by Prof. Fumeaux and Mr Burger, one day after the symposium at the University of Queensland.

Further, A/Prof. Fickenscher presented a seminar about the impact of wind turbines in the forward scattering calculations at Griffith University in April.

In addition to the technical seminars, AP-MTT also organises journal club discussion groups for the members at Gold Coast. A small community of individuals with an interest in

electromagnetic waves (antennas, microwaves, propagation, etc) is gradually being formed. At the time of writing this report, the next journal club activity is scheduled for the last week of August.

In the coming months, we have a few competitions for student members. We have thesis award competitions for undergraduate and postgraduate students (two different categories).

Furthermore, there are some travel grants from MTT society to support student participation in conferences (like IMS, APMC, EuMW). The deadline for the submission of applications is 9 September 2018. Details on the eligibility and selection criteria are to be circulated in an IEEE eNotice. Please feel free to contact me for information, if you do not receive the eNotice by 20 August 2018.

Power and Energy & Dielectric and Electrical Insulation Societies



Tapan Saha

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Committee:

Chair: Tapan Saha
 Vice Chair: Nilesh Modi
 Secretary: Mohammadhossein Etesami
 Treasurer: David Batterham

Renewable Electricity Sources

We had a Co-Badge event between EA Electrical Branch, EESA, IET and IEEE PES QLD Chapter on Renewable Electricity Sources. Among others, Prof Tapan Saha & Dr Ruifeng Yan from the IEEE PES QLD Chapter were speakers in this event. The event was a great success with more than 100 participants. The event took place on 23 May at Engineers Australia Hawken Auditorium.



Prof Tapan Saha, IEEE PES Chapter Chair presenting at the event.

IEEE PES Travel award for Students to attend PES GM 2018

IEEE Queensland Section PES/DEIS joint Chapter recently announced the 2018 IEEE Power & Energy Society (PES) Queensland Chapter Conference Travel Prize for attending IEEE PES GM 2018 in Portland, Oregon, USA, which will be held during Sunday, 5 August 2018 to Thursday, 9 August 2018. This year's winners are Junhyuck Seo and Huajie Gu. Both are

completing PhD qualifications at the University of Queensland. They will each receive \$2,000 to cover part of their expenditures for attending the conference. They will also invited to attend IEEE QLD Section AGM dinner in November/December 2018. Congratulations Junhyuck and Huajie!

Whole of Australian National Electricity Market assessment of economic levels of transmission interconnection, intermittent generation and energy storage capacity

Dr Ian Ross from Ernst & Young presented a seminar on "Whole of Australian National Electricity Market assessment of economic levels of transmission interconnection, intermittent generation and energy storage capacity" on 19 June 2018 at The University of Queensland. This seminar was attended by 35+ engineers. Dr Ian Rose also received IEEE PES Queensland Chapter Outstanding Engineer Award for 2017 in this function.



Prof Saha introducing Dr Rose in the seminar



Dr Rose receiving IEEE PES Queensland Chapter Outstanding Engineer Award for 2017 in this function

Doppler Lidar technology for atmospheric and environmental observations

Ms Fadoua ABOUBI from Leosphere in Paris, France presented a seminar on 28 June 2018 at the University of Queensland.

Abstract - Heterodyne pulsed Doppler Lidar is becoming the technology of choice for remote sensing of wind, aerosols and clouds. Atmospheric measurement in the lower troposphere by coherent pulsed Doppler Lidar has matured rapidly in the past decade. Such instruments are now being used for operational applications and meteorological

networks. The ISO 28902-2:2017, (Air quality



Ms Fadoua ABOUBI presenting at the seminar.

– Environmental meteorology – Part 2: Ground-based remote sensing of wind by heterodyne pulsed Doppler Lidar) has been recently published (2017/07) aiming at providing all users with a reference document, universal terminology, performance characteristics and use cases. With over 1200 heterodyne pulsed Doppler Lidars manufactured over the past 10 years, Leosphere has gathered a unique background on their applications, measurement performances and operation.

Technical Events coming soon

Speaker: Alberto Troccoli (WEMC)

Topic: CLIMATE SERVICES IN SUPPORT OF THE ENERGY TRANSFORMATION

Advance Engineering Building (#49), Room 502 (Staff House Road, The University of Queensland, St. Lucia Campus); Date: Tuesday, 28 August 2018; Time: 11am

Register through this [link](#).

Abstract: The energy sector is undergoing a major transformation. This transformation in the energy sector is taking place against a variable and changing climate. Given the weather-and climate-dependency of both renewable energy and demand (even in the case of large storage uptake), it is important to develop robust climate-based tools to advise energy planners and policy makers. This talk will describe how the EU Copernicus Climate Change Service (C3S) European Climatic Energy Mixes (ECEM) project can assist in this energy transformation. ECEM is

producing, in close collaboration with prospective users, a proof-of-concept climate service, or demonstrator, whose purpose is to enable the energy industry and policy makers to assess how well different energy supply mixes in Europe will meet demand, over different time horizons (from seasonal to long-term decadal planning), focusing on the role climate has on the mixes. The presentation will conclude with an outlook for future developments of climate services for the energy sector, and what benefits they could provide to the energy industry and decision makers at different levels.

Bio: Prof. Alberto Troccoli is a visiting Professor at the University of East Anglia's School of Environmental Sciences and Managing Director of the World Energy & Meteorology Council. He has about 25 years of experience in several aspects of meteorology and climate and, in the last decade, their applications, particularly to the energy sector. He has worked at several leading institutions such as NASA, ECMWF (UK), the University of Reading (UK) and CSIRO (Australia). He is the main author of the UN-led Global Framework for Climate Services (GFCS) Energy Sector implementation plan. He attended the May 2015 WMO Congress as an invited expert on energy sector matters and he is regularly invited internationally to give talks on energy and climate. He is the convener of the International Conference Energy & Meteorology (ICEM) series. Alberto holds a PhD in physical oceanography from the University of Edinburgh

Annual Manufacturing Seminar

Distribution Switchgear Evolution: Deploying synchro-phasors in Medium Voltage Reclosers

Date: 12 Sept 2018 - 06:00pm to 08:00pm

Venue: Hawken Auditorium Level 1, 447 Upper Edward Street, Brisbane

Members: EA, IET, IEEE members free:

Register for this event: [here](#).

Distribution Switchgear Evolution: Deploying Synchrophasors in Medium Voltage Reclosers. Through the ongoing evolution of the energy supply network driven by decentralisation of generation and consumption, an emerging need for new protection and control techniques has arisen. For a connected future, the distribution grid must evolve to handle the greater variation in power flow and control requirements. This presentation outlines the ongoing ARENA backed project at NOJA Power for the world's first major distribution system synchrophasor measurement acquisition and equipment deployment. The landmark data acquired from this project will be used to evolve protection and automation schemes in the distribution network.

Presenters Biographies: Mehdi Mosadeghy, PhD, MIEEE, MSc, BSc, Project Manager – NOJA Power

Mehdi received his B.Sc. and M.Sc. degrees in Electrical Engineering from Shahed University and University of Tehran, Iran with emphasis on power systems. He received his PhD in Electrical Engineering from the University of Queensland in 2016. After completing his PhD he joined the Research & Development department of NOJA Power as a Project Manager to work on developing Synchrophasor technology. Dr Mosadeghy is also an adjunct researcher at the University of Queensland and Deakin University. His research experience and interests are in the fields of renewable energy integration, Synchrophasors, reliability assessment and power system analysis. Mehdi is an active member of IEEE and currently he is the Chair of Professional Activities at IEEE Queensland.

Martin van der Linde MIEAust BE BBusMgt, Global Marketing Manager – NOJA Power

Martin van der Linde is the Global Marketing Manager for international switchgear manufacturing and technology company NOJA Power. A current MBA candidate of the University of Queensland Business School, Martin completed his Bachelor of Engineering majoring in Power Systems at UQ in 2013. An active member of Engineers Australia and the Electric Energy Society of Australia, Martin has worked in various

technical and strategic managerial roles with experience of energy distribution, conducting business in 15 countries, authoring over 70 technical articles and presenting at 10 conferences. Martin's key interests are in modern energy distribution, storage and automation, education, commercialisation of technology and the solving energy distribution challenges in the modern grid.

Benefits of using voltage regulating distribution transformers for grid integration of renewables- Lessons learned from first installations in Australia and New Zealand

By: Dr. Thomas Smolka, Reinhausen
Australia

Date: 2 October, Tuesday 4pm
Venue: 49-313A (Advanced Engineering
Building)
Staff House Road, the University of
Queensland,

St. Lucia Campus, Brisbane

Registration: Will follow in coming weeks.

Abstract

The increasing amount of electrical energy being fed into the grid from dispersed generation plants is presenting the operators of public, electrical energy supply systems with new challenges. The higher power flows by the additional feed-in are significantly increasing the need for grid reinforcement, especially in rural distribution grids. This is often needed to ensure voltage stability. Voltage Regulating Distribution Transformers (VRDT) are a possible alternative to conventional grid reinforcement in poles and wires, which is often very costly. These transformers decouple the voltage levels of the low- and medium-voltage grids, enabling better capacity utilization of the voltage band. The seminar will present first results from planning, installation, and operation of the first pilot projects within Australia and New Zealand.

Women in Engineering



Marie-Luise Wille
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Committee:

Chair: Marie-Luise Wille
 Vice Chair: Negareh Ghasemi
 Secretary: Hanxiao Zhang
 Treasurer: Vacant



What Happened:

IEEE QLD WIE's Secretary, Han (Hanxiao) Zhang, represented QLD WIE at IEEE TENSYP in Sydney between 4 and 6 July. Han presented about how to "Recruit, Retain and Empower" young students in STEM and she highlighted the importance of mentoring. Han also shared her insights at a Young Professional's Panel Session about topics of:

- Initiatives workplaces can provide that would help young professionals to advance in their career.
- Challenges facing young professionals in their careers.
- Initiatives that workplaces can do to recruit and retain young professional engineers.

In May, IEEE QLD WIE Chair Marie-Luise Wille attended the IEEE WIE International Leadership Conference in San Jose, USA. While representing the QLD section, Luise

also volunteered for the conference organisation and promoted the upcoming WIE ILS in Brisbane.

Keep an eye out for the next call for volunteers coming up in December.



What Is Coming Up:

IEEE WIE International Leadership Summit is coming to Brisbane in November 2018! It will be a wonderful opportunity for you to learn, to network and to genuinely have a great time. Registration will open in August. [Website](#)
 If you would like to be a sponsor, speaker, or support the local organising team, please contact us using the online [form](#).

Sponsorship packages are available in Platinum, Gold, Silver and Bronze. Please join us!



Nov 26 & 27 | 2018 Brisbane | Australia

Young Professionals



Rob Makaremi
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Committee:

Chair: Rob Makaremi
Vice Chair: Nazanin Nadian
Secretary: Rueben Peterkin
Treasurer: Hamid Moghadam

We hosted our first event of the year on 7 June in AECOM Brisbane office. Our guest speaker Kathryn Barwick who is a Client Manager at Engineers Australia discussed benefits of the chartership program for young professionals. She explained the recent updates and changes to the chartership including the details of chartered 2017+ program.



Information Session on Chartership event.

On 26 June, Nazanin Nadian and I had the privilege of attending Engineers Australia Fraternity Dinner and represent the YP affinity. This is an annual event where the Queensland electrical engineering fraternity including the branches of the Electrical College and the ITEE College, the Qld Chapter of the EESA, the Qld Chapter of the IEEE, and IET come together and celebrate their achievements. The dinner was followed by Else Shepherd AM. She is an Adjunct Professor at QUT, an Honorary Fellow of the Institution of Engineers and a Fellow of the Academy of Technological Sciences and Engineering.

To get the latest updates on our upcoming events follow us on [Facebook](#).

Griffith Gold Coast Student Report



Carl Kleinschmidt
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Committee:

Chair: Carl Kleinschmidt
Vice Chair: Jade Newing
Secretary: Vacant
Treasurer: Georgia Nicholson

On 5 June, the IEEE group teamed up with the Women in Engineering group, to host a networking event for the students. The event was well received, with roughly 100 attendees. The industry representative present were from Boeing, GHD, SMEC, Powerlink and AEMO to name a few. The evening included a keynote speaker followed by a Q&A session with a panel of industry representatives



Earlier this year we ran a Latex software workshop with Dr Stephen So, to help the students develop better report writing skills.

The IEEE group at Griffith University Gold Coast is working with the Griffith Racing Team to produce an electric vehicle. The dedicated Facebook page is [here](#). There are students writing their thesis on the EV car components and control systems. The vehicle is currently in the design phase, and

the team is seeking sponsorship from companies and individuals looking to get involve. For more detail see below.

IEEE members will be doing a site visit to a substation at the end of the month. Powerlink engineers will be on hand to share their knowledge and guide the group.

IEEE EV Research Project

The Griffith University Gold Coast IEEE Student Branch has made a great start to the IEEE EV Research Project, which commenced at the start of the academic trimester this year. So far, students have volunteered to research various components of the Formula SAE-A Electric Vehicle (EV), such as the motor, power distribution module, battery management system and the accumulator. In the following trimester, four 4th year Electrical and Electronic Engineering students will begin their thesis on different aspects of the EV, as part of their honours degree.

The Formula SAE-A Competition creates a friendly and competitive environment for Universities across Australia to demonstrate and compete their vehicles in the Internal Combustion and Electric completions. The students must develop a depth of knowledge across of range of technical, business and cost analysis fields. Statics and Dynamic events are scored, teams are ranked accordingly.

With the support of Professor Junwei Lu, the Griffith Racing Team and the Griffith Nathan campus GEM team (Griffith Electric Motorbike), the IEEE EV team have toured Nathan facilities and provided expertise and support towards the IEEE EV Research Project. By the end of 2018, we aim to secure generous businesses to sponsor the team so that in 2019, purchasing components will commence. If you wish to know more information about this exciting project, don't hesitate in contacting Jade Newing, the Project Manager, at jade.newing@griffithuni.edu.au.

QUT Student Report



Nima Khoshsirat
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Committee:

Chair: Nima Khoshsirat
 Vice Chair: Mohsen Khorasany
 Secretary: Mac Akmal Jahan
 Treasurer: Chandrama Sarker

Follow us on



IEEE QUT student Branch activities

- 1- “**Smart fault detection for low voltage distribution systems**” seminar by Mr. Mehdi Shfiei was held on 15 June 2018. Mehdi is an associate lecturer and a researcher at Queensland University of Technology. His research project is mainly focused on power system monitoring, estimation and modelling, fault location and identification and dynamic studies in power grids. Before joining QUT, he was a senior protection engineer at FPMC, worked on almost 70 protection relays and relay test units. He also was tasked with relay settings calculation, fault analysis, power system modelling in Power Factory, testing and configuring protection relays. In this seminar he presented a case study in which the performance of the Kalman filter and quantile regression as fault detection frameworks is evaluated by real distribution networks and customer data.



2. A non-technical talk has been organized to be held on 16 August 2018. In this event Dr. Paige Hilditch-Maguire, Director of QUT Graduate Research Education and Development will talk about “**the importance of interpersonal and networking skills for career development**”. This event goal is to help early career researchers and PhD students to leverage their interpersonal and networking skills in their career development. Venue of this event is at QUT Gardens Point Campus, S block, level 6, room S620 and it will start at 2pm.