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Institute of Electrical and Electronics Engineers  
Queensland Section (ABN 67 431 648 974)  
[ieee-qld.org](http://ieee-qld.org)

# IEEE QUEENSLAND SECTION NEWSLETTER

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## Section Chair's report



**PROFESSOR TAPAN SAHA**  
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Welcome IEEE Queensland Section members. This is the second newsletter of 2014. We are sorry for the late publication of this newsletter. This delay was beyond our control and thanks to Mike Robinson for helping us to publish this newsletter.

Our technical activities are progressing very well with a number of technical activities per month. Some chapters are doing very well and others are trying to organise their events in coming months. I hope you are actively participating in the section/chapter technical activities. Please feel free to contact me or respective chapter chairs to give your feedback about the activities they are organising.

As I have informed you before, I presented a bid to host IEEE R-10 2015 Chapter Chair meeting at Gold Coast. Our bid was well accepted by the R-10 delegates. R-10 executive committee have now advised that our bid was unsuccessful due to higher Australian cost compared to the successful bid from Bangladesh. This is frustrating, but beyond our control!

We have active student counsellors in most campuses of Queensland Section Universities. Most of our student branches are doing very well. We have managed to recruit a good number of new student members during the last few months. Welcome Dr Ed Palmer, a veteran IEEE volunteer who has taken the student counsellor role at CUQ Rockhampton Campus.

IEEE Young Professionals affinity group (previously known as GOLD) has now successfully organised 2014 IEEE Australian and New Zealand Student Conference (ANZSCON) in Brisbane in July 2014. Ms. Alexandra Price and Ms. Prachi Redey have worked very hard to make ANZSCON 2014 a great success. My sincere congratulations to the whole ANZSCON team for their great success.

IEEE Power and Energy Society Chapter has won the Outstanding Chapter runner-up award for their activities in 2013. This award has been given to our PES chapter for four years in a row. Congratulations to Dr. Daniel Eghbal and Dr. Chandima Ekanayake for their great efforts.

February 22nd 2015 will be the 30th anniversary of the Queensland Section's founding. A small planning committee has been formed to organise appropriate celebrations, which will take place on February 18th, 2015 at the University of Queensland. I will keep you informed of the committee's progress in future newsletters and on the section's website.

Our website is undergoing major changes. An archives area has been created to hold the section's historical documents and to record past events. Please visit the web [archives](#) and discover some of the information available there. The archives are being expanded continuously. If you have any documents - especially newsletters or meeting minutes - or photographs that are suitable for archiving please send them to the webmaster.

A new website, the section's 5th in almost 20 years, is being developed and will be unveiled prior to the section's 30th anniversary.

As you know IEEE Section and Chapters are operated by volunteers and we always encourage members to join the section/chapter committees. This newsletter will have information on call for nominations for the 2015 office bearers of the Section and Chapters. Please drop an email to the Chair of the respective nominating committee if you are interested in joining the volunteer team. In the meantime please keep yourself updated by visiting our [website](#).

## Section Vice-chair's report



**DR. DANIEL (MEHDI) EGHBAL**  
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### Membership elevation

The Queensland IEEE Section is pleased to help you become an IEEE Senior Member.

If you are a Member of the IEEE with ten years or more of professional practice and at least five years of significant performance during those years, the Queensland Section encourages you to consider elevating your membership to Senior Member grade and enjoy the recognition that this status confers.

The Queensland section recently formed the Senior Membership Elevation Committee to facilitate the process of elevating IEEE members to Senior Member grade. The committee's task is to assist members in preparing their application, find three senior members as referees, and submit the application online. The Queensland Section is very pleased to help its members achieve Senior Member grade through this initiative.

Here is what *you* have to do:

- Visit the membership elevation page at the Queensland section's [website](#).
- Fill out the application form available [here](#).
- Find three referees from the list below or contact the Queensland section Vice-chair to allocate you three referees. **Don't contact referees** that you don't know personally.  
The referee list is available [here](#).
- Send the completed application form and a recent copy of your CV to the Queensland section's vice-chair.

### Kindle discounts

The Queensland IEEE Section is offering a new benefit scheme to its members for a limited time. Section members can receive 10% discount when purchasing a Kindle digital reader (Kindle, Kindle Paperwhite or Kindle Paperwhite 3G).

The following conditions apply:

- The offer is limited to the first 20 claimants
- The claimant must be a Queensland Section member in 2014
- The Kindle device must be purchased during July – October 2014
- The Kindle device must be purchased for the personal use of the IEEE member
- One device per member

To make a claim, a copy of the receipt showing the date of purchase and the model must be submitted to the Queensland Section treasurer.

The discount offer will appear on the section's website until the final claim is made or the time for claims expires, so please check the website before submitting a claim.

# Acting Newsletter editor's report



**MIKE ROBINSON**  
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Hello, and welcome to the latest edition of the Queensland Section's newsletter.

I would like to thank Rob Ellen, former editor of the newsletter, for his assistance in getting me up to speed in my role as acting newsletter editor. Over the last few years Rob has developed a neat system for automating the newsletter's production. I had assumed that producing a newsletter was simply a case of stitching together a few Word documents and pressing a button or two to make it all happen. On the contrary, the newsletter is produced on L<sup>A</sup>T<sub>E</sub>X, a very complex and sophisticated software system for typesetting documents. Rob has reduced some of the complexity of L<sup>A</sup>T<sub>E</sub>X by putting its formatting rules into reusable scripts.

Lately, in my role as section webmaster, I've come to appreciate the value of newsletters. The section website is evolving as an archive of the section's history since it was founded on February 22nd, 1985. Reading old newsletters has given me a better perspective on the evolution of the section over the last 30 years, as well as providing me with material to augment the archives that now form an important part of the section website.

The website archives are not complete by any means. One reason for this is I haven't had time to document all the information that is captured in old newsletters and the minutes of meetings. Another reason is that there are significant gaps in what has been preserved on older section websites. If you have any newsletters from the past, or minutes of meetings from 10 years ago or earlier, or photographs of distant events, please contact me and I will arrange to put them in the archives

if they are not already there.

In a similar way the newsletters of today will become a treasure trove for archivists in the future. It is important therefore that you document your chapter's activities, and section activities in general, by contributing regularly to the section newsletter. Take lots of photos when your chapter or affinity group stages an event and put them in the newsletter too. If the event is a lecture, ask the presenter for a copy of the slides; slides provide a better record of what really happened and slides can be preserved in the section's website archives.

One small change that I've made in the newsletter is to make all e-mail addresses live. If you click on an e-mail address anywhere in the newsletter your e-mail program will open. Please let me know if it doesn't work on your computer.

The links in the Table of Contents work properly now. This long-standing problem has been solved.

Many thanks to all who contributed to this issue. I've compiled a list of guidelines for submitting newsletter copy [here](#).

Finally, a blast from the past. A few weeks ago a copy of the first electronically distributed Queensland Section newsletter was found in a box at the University of Queensland. Dated May 1997, it was distributed to 619 section members. You can read it [here](#).

Enjoy!

# Webmaster's report



**MIKE ROBINSON**  
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Webmasters don't often submit reports to the Queensland Section newsletter. I had to search back to November 2006 to find the most recent webmaster's report. The webmaster for that year, Shen How Goh, submitted two reports: first to introduce himself in April and later, in November, to draw attention to features of the new [www.ieee.org](http://www.ieee.org) website format introduced by the IEEE during that year.

It is obvious then that I am breaking a time-honoured silence by submitting this report for your attention. Why would I do such an irreverent thing? The answer is: the section website is undergoing a major review and the review needs to be explained to the section membership in general and to the chapter leaders in particular.

The format of the website has changed several times in the past. Thanks to a tip-off from Dr Andrew Lewis, Chair of the Computational Intelligence Society Chapter, I was able to access archived versions of the section website between April 2001 and April 2011. By studying these snapshots in time I observed one major change in 2004, followed by another change sometime between late 2009 and late 2010. For ease of reference I will designate the three website epochs as [Phase 1](#), [Phase 2](#) and [Phase 3](#).

The Phase 1 website was very basic, being completely free of graphics. It made good use of colour however, featuring splashes of blue, red and yellow in fixed positions on each page, with black type on a white background. There were navigation bars on the left-hand side and the bottom of each page.

Phase 2 introduced graphics but eliminated the splashes of colour. Visually it was a step backwards from Phase 1, but photos of section events such as lectures and the Annual General Meeting were displayed

for the first time. Buttons were used on the main navigation bar and static photos of Gold Coast beach scenes appeared on the right-hand side of each page. Black type on a white background was retained.

Prior to the Phase 3 change the website format followed a consistent pattern familiar to anyone who uses the Web on a daily basis. The webmasters involved in maintaining the website would have needed to know some HTML, the 'language' of the Web. They would also have needed to know about layout and design, the other basic skills required to build a website.

In Phase 3 a software utility named DocuWiki was used to rebuild and maintain the section website. DocuWiki sacrifices layout and design for ease of maintenance. The design and layout features available in DocuWiki are severely restricted. Graphics, the background images that bring diversity and vitality to modern websites, are non-existent. Backgrounds are always white on DocuWiki websites, and photographs can't be placed on a web page with any degree of precision. Font sizes are limited to a predetermined range, and font choices don't exist. Style sheets, a mainstay of modern web design, don't exist either. DocuWiki is brain-dead in matters of style and sophistication.

DocuWiki's major advantage - ease of use - is also its biggest vulnerability. Just about anyone can edit and maintain a DocuWiki website: the task has been reduced to formulaic simplicity. The downside is that each maintainer brings along his or her concept of style and layout; the usual result is web pages that don't have consistent style rules applied to them. Currently nine individuals are registered to maintain the Phase 3 section website; in these circumstances webmasters can become redundant.

My first task when asked by Section Chair Profes-

sor Tapan Saha earlier this year to archive old material from the PES web page was to devise an archiving system for the website. It quickly became obvious that the website was a collection of information that was being overwritten annually, usually with minimal retention of historical data.

A review of the website revealed there was no consistency in the way different chapters placed information on the website, nor were all chapters keeping their home pages up-to-date. The most recent information on one chapter's home page had been there since 2008. Two chapters had never implemented a customised web presence, instead choosing to point their home pages to IEEE Society websites.

The last 3 months have been spent overhauling the website, editing existing web pages and applying consistent style rules to them. Superfluous information has been deleted, non-current information has been removed to designated archive pages, and home pages have been added for chapters and student branches that previously didn't have specific pages.

The website now has a consistency of layout, style and design that previously didn't exist. A considerable amount of historical data has been retrieved from older versions of the website and placed in appropriate archives. The location, retrieval and archiving of previously discarded information continues; I expect it will

continue until the end of 2014.

Comparing the Queensland Section's website with the websites of other Australian sections - which I invite you to do - quickly demonstrates that our website is the odd-man-out. Our website, even after the current cleanup, looks like a collection of pages from Wikipedia: cold, bland, anaemic and visually uninspiring.

I have proposed, and the section executive committee has accepted in principle, that we move to a more modern website presentation. DocuWiki will be discarded and replaced with a website built using HTML5 - the latest web 'language', dynamic scripting languages, drop-down menus, style sheets and appealing graphics. It will be more difficult to maintain vis-a-vis DocuWiki, but not impossible for a webmaster who understands modern web methods.

Most of the foundation work for constructing a modern website has been done through giving the present website a more logical and functional framework. Transposing the existing content to a new shell will be easier than starting from scratch.

All going well, the Queensland Section will have a new Web presence in 2015.



# CQUniversity Brisbane Student Branch



**DR. MARY TOM**  
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## Event Report: ICT Careers Evening

Wednesday 30th July 2014 at CQUniversity Brisbane Campus, 160 Ann Street.

This event was organized under the leadership of IEEE Student Branch Counselor Dr. Mary Tom and ACS Event Manager Kylie Barringer. The event was attended by over 55 participants, including students from other universities in the Brisbane area such as Griffith and QUT. The event was chaired by Dr. Tom who gave a brief introduction of IEEE and ACS, the co-sponsors of the event, and encouraged students to take up the full benefits of membership.



*Welcome by Dr. Mary Tom*

Four invited speakers with a wealth of knowledge and several years of ICT industry experience delivered very information-rich presentations on different topics. The panel session providing opportunity for students to ask questions and receive wider response from the speakers has been a highlight of this event. The main topics presented by the speakers are discussed briefly in the following paragraphs.

The first speaker, Scott Barnes, User Experience Architect at Schneider Electric, provided a very informative talk exploring the '*Landscape of industry demand: current and near future*'. Scott is a strategic, multi-disciplinary designer, a coder and user experience architect with an eye for innovation and pixel perfection.

Scott has worked for a range of clients, with Microsoft, Billabong, Nike, Google and Adobe among them.



*Evolution of the user interface seminar*

Scott's talk remained the focus of the evening as he shared his experience on the evolution of languages and techniques in user-interface architecture. He used experience to provide some futuristic insights on new technologies and resulting skills requirements. Scott also highlighted the competition between enterprises as a catalyst for innovation. Such innovation can be a turning point in the expected evolution of technology.



*Sina Anderson presents his GERAM seminar*

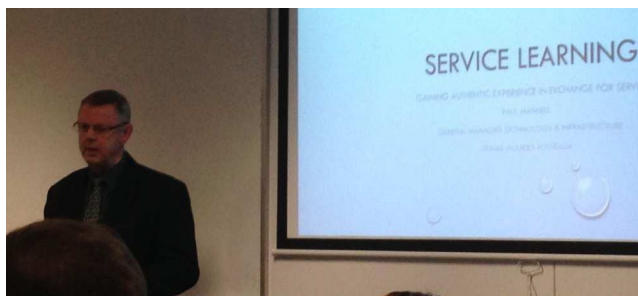
Sina Anderson, ACS Young IT convenor and IT course leader at Evocca College, engaged the audience with an interesting presentation on Generalised Enterprise Reference Architecture Methodology (GERAM) industry applications and career opportunities. Sina has a strong Information Technology and business back-

ground across a variety of fields including management, networking, and consultation. For the past 15 years he has focussed on industry experience, education, customer service, IT integration, change management, information security, and system analysis.

GERAM is used widely in industries from agriculture to real estate and is applicable across organisational units ranging from customer service to quality assurance. GERAM is an ‘umbrella’ modelling system incorporating architecture, methodology, modelling concepts, tools, languages, and models. Sina took the audience through the whole process of application of GERAM in use highlighted by examples and supporting graphics.

Paul Mansell, General Manager of technology and infrastructure at Spinal Injuries Australia, delivered an interesting talk on ‘Service Learning: Gaining Authentic Experience In Exchange For Service’. Paul commenced his career as an electrician in the Royal Australian Navy submarine service. Later Paul obtained a Bachelor of Marketing and IT Management, followed by a Master of Information Technology and Project Management. Paul has a wealth of knowledge and experience working in a diverse range of industries, both locally and overseas, in areas such as education, technology, engineering, and defence. Paul is also an accredited professional photographer.

Paul has been instrumental in supporting the Service Learning Interest Group (SLIG) from CQUniversity by facilitating 6 Master of Information Technology students to engage in discipline-specific voluntary work at Spinal Injuries Australia, a not-for-profit organisation.



*Paul Mansell presents his Service Learning seminar*

Service Learning is a form of experiential education

where learners obtain authentic knowledge in their field while providing service to the community. Spinal Injuries Australia provides services in a number of areas including home support, peer support, information and advocacy, and employment services for people with spinal injuries. As a not-for-profit organisation operating within financial constraints, SLIG participants contribute in completing projects as well as assisting in advancing the use of technology. This group of students exhibited their wealth of knowledge, amazing attitude and willingness to assist, and an enriching mix of cultures. The audience found Paul's speech very motivational, resulting in an overwhelming response to participating in SLIG.

The third speaker, Oleg Lukin, database/BI programmer at Queensland University of Technology and an alumnus of CQUniversity, spoke on ‘Transition From A Student to an ICT Professional’. Oleg shared his experiential knowledge of the challenges of job hunting and building his expertise to become an IT professional. Oleg emphasized the need for life-long learning and gaining essential generic skills such as team work and time management. The audience appreciated Oleg sharing his experience with them, especially as he is an alumnus of CQU.



*Oleg Lukin speaks about his learning experiences*

The discussion panel ‘Transition from study to career - how to prepare’ attracted many interesting questions from the audience. All panel members contributed equally, drawing on their diverse experience in answer-



ing these questions. Specific questions focussed on preparing to be a systems analyst, programming languages and related skills requirements, and generic skills requirements. The panel emphasized the need for a good degree from the university, readiness to learn, and building generic skills.

### **Social Activities**

One of the main goals of the event was to promote networking between the participants. This objective drove us to plan the event in a way which allowed this interaction to always be present. The main event was designed to have extended coffee-breaks and refreshments, with enough time for the participants to meet and mingle.

### **Feedback**

The IEEE 2014 event organising team has received positive feedback from members and participants. Many enquires on participation in Service Learning Interest Group were received.

### **Conclusion**

Considering the good attendance at the event and the positive reviews received from attendees, we consider that the event was successful. It certainly exceeded our expectations.

We would like to thank everyone who helped with the event. That includes our excellent speakers, the attendees, and many others. Thank you!

# University of Queensland PES Student Branch

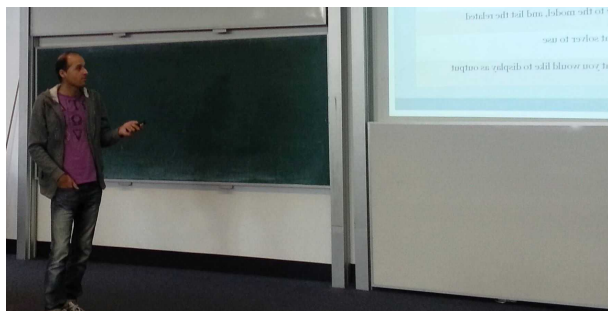


**MEHDI MOSADEGHY**  
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The University of Queensland PES student branch held the following events:

- Introducing GAMS and its applications in Power Engineering  
Speaker: Nadali Mahmoudi, PhD student at The University of Queensland  
Date(s): Friday 09/05/2014, 14:00-15:00  
No. of Attendees: 15 IEEE members

The General Algebraic Modelling System (GAMS) is a powerful tool for optimization problems, particularly linear, non-linear and mixed-integer programming. During recent years and after deregulating power systems, there is an increased need for optimizations tools. This seminar introduced the basic modelling of mathematical programming in GAMS, provided a simple power-systems model programmed in GAMS, and raised some issues and solutions for the audience to consider.



*Nadali Mahmoudi addresses the audience*

- AEMOs Graduate Development Program

This event was an opportunity to network with Australian Energy Market Operator (AEMO) leaders and current graduates and learning more about AEMOs pivotal role in Australia's energy future and how students can make a difference.

Networking Event

Date(s): Monday 19/05/2014, 13:00 14:00  
No. of Attendees: 40 IEEE members

- Challenges in Queensland Distribution Network

In this seminar Don McPhail described the challenges in distribution network faced by Ergon Energy as a distributor in Queensland and outlined the approaches taken to overcome these issues. Large-scale penetration of sustainable energy, expectation and implementation of smart grid and resilience of the distribution network in disasters are some of the challenges Ergon faces.

Speaker: Mr. Don McPhail, Ergon Energy  
Date: 27/05/2014, 10:00-11:00  
No. of Attendees: 48 IEEE members



*Ergon Energy seminar*

- Postgraduate Engineering Students Soccer Tournament at UQ

UQ Postgraduate Research Engineering Student Society (PRESS) organized a soccer tournament on Friday June 27th, and IEEE postgraduate students arranged a team and attended the tournament. Although they played well, but they couldn't reach the final game but they got 3rd place.



*UQ PES's fearless footballers*

# University of Queensland Student Branch



**JACK MCKINNON**

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Our most recent major event was ANZSCON 2014 in conjunction with the IEEE QLD Young Professionals. This was a 3-day congress which featured technical, social, IEEE and professional development orientated lectures and workshops.



*A conference breakout session*

Students and young professionals from Australia and New Zealand attended the conference.



*ANZSCON 2014 delegates*

It was fantastic to have Om Perakash, Helene Fung and Lance Fung as keynote IEEE speakers.

The UQ Student Branch appreciates the terrific support it received from everyone in the the Queensland section including notably Alexandra Price, Prachi Redey, Tapan Saha, Vaughan Clarkson and Mike Robinson.



*Darrel Chong from Region 10*

On the 4th of August we held a vacation work seminar for undergraduate students. The aim of the seminar was to allow final-year students, who had previously had vacation work, to pass down any advice they had on how to successfully obtain vacation work. This included application, online testing and interview advice, as well as stories of their own vacation work. It is clear that such a topic is of interest to many students, with 50+ attendance and 12 students signing up as IEEE members during this event.

An event for final-year engineers with a focus on 'A day in the life of an engineer' is being planned with the IEEE UQ PES student branch. It is hoped that two industry engineers and an engineer working at the University will be able to provide an insight into the everyday life of an engineer.

# Young Professionals Program Affinity Group



**PRACHI REDEY**  
prachiredey@gmail.com

## **Committee:**

Chair: Alex Price

Vice-chair Prachi Redey

Secretary: Matthew Zillman

The 2014 IEEE Australia and New Zealand Student Congress ([ANZSCON2014](#)) was hosted by the Queensland Section at the University of Queensland in Brisbane on July 3rd-5th, 2014. The congress was highly successful with over 50 delegates attending from Australia and New Zealand.

ANZSCON2014 received positive feedback from delegates as well as from IEEE Region 10 and the Australia Council.

Headed by Conference Chair Alexandra Price and Program Director Prachi Redey, the organising committee presented 2 and a half days of engaging talks and workshops, as well as opportunities for delegates to showcase their skills through the poster competition and the 3 Minute Thesis competition. The Treasure Hunt ice breaker, a Women in Engineering networking breakfast, and the Congress dinner provided networking opportunities for delegates.

The congress hosted a range of speakers from academia and industry, who presented on a variety of topics from self-development for professionals to cutting-edge technology in power network grids; from innovation in IT and startups such as Cartesian Co and Tanda to encouraging entrepreneurship in women in technology; and other topics as diverse as the technol-

ogy behind Cochlear ear implants and how to influence top management.

The presence of IEEE dignitaries at ANZSCON2014 allowed discussion regarding IEEE and an exchange of ideas between volunteer delegates. Lance Fung, Australia Council Chair 2014, provided an overview of IEEE and its structure and operation, and shared his 20-year experience of IEEE involvement with delegates. Darrel Chong, Vice-Chair of Region 10 Membership Activities, presented on volunteer empowerment in IEEE.

On behalf of the ANZSCON2014 Organising Committee and the Queensland host section, I would like to extend my gratitude to the speakers at ANZSCON2014 for making the event an informative learning experience for all delegates.

Special mention is necessary for the Platinum sponsors of the event, Ergon Energy, Energex, University of Queensland and IEEE Australia Council. Without their support ANZSCON2014 would not have been possible.

A special thank you also to the Queensland Section Executive Committee for their unfailing support and guidance.



# ANZSCON|2014

IEEE Australia & New Zealand Student Congress

**Organising Committee:**

Congress Chair:	Alexandra Price	Energex Limited
Vice-chair:	Jack McKinnon	University of Queensland
Program Director:	Prachi Redey	Clinical Network Services
Treasurer:	Richard Yan	University of Queensland
Website:	Mehdi Mosadeghy	University of Queensland
	Daniel Dwyer	Energex Limited
General Commit	Andrew Lai	University of Queensland
	Laura Benn	University of Queensland
	Gopi Sara	University of Queensland
	Jack Gaynor	ABB
	Seb Forsyth	University of Queensland
Steering Commit	Noel Gomes	ABB



*Darrel Chong from Region 10*



*A conference breakout session*



*TISP introductory remarks*



*TISP workshop team*





*Delegates at presentation*



*Judging the poster competition*



*BBQ lunch on Day 3*



*Michael Kincel from Cochlear*



*Ian McLeod, CEO - Ergon Energy*



*Advanced Engineering Building*

# Computational Intelligence Society Chapter



**DR ANDREW LEWIS**  
a.lewis@griffith.edu.au

IEEE Distinguished Lecturer Professor James Bezdek visited Griffith University in May and conducted two seminars.

- Seminar on 6th May 4-6 pm at Nathan campus  
Title: Every Picture Tells a Story: Visual Cluster Analysis  
Definitions of the three canonical problems of cluster analysis: tendency assessment, clustering, and cluster validity. History of Visual Clustering. The VAT, iVAT, asiVAT and speciVAT algorithms for visual assessment of clustering tendency. Applications to time series analysis in Eldercare data (iVAT); social network analysis with Sampson's Monastery data (asiVAT) and Zachary's karate club data (specieVAT); and network access security (roleVAT), a commercial application developed by CA technologies. Extension of VAT to the rectangular case. The coVAT algorithms for assessment of clustering tendency in the four clustering problems associated with rectangular relational data. Application to the response of 18 Fetal Bovine Serum Treatments to the treatment of fibroblasts in gene expression data.  
Attendance: 23
- Seminar on 7th May 10-12 am at Gold Coast campus  
Title: How big is too big? Clustering in Big Data  
What is big data? Objectives of clustering in big data are acceleration for loadable data and feasibility for non-loadable data. History of c-means and least squares estimation. Acceleration methods for fuzzy c-means (FCM). Approximate clustering with FCM and Gaussian mixture models (EM) based on literal clustering of a sample followed by non-iterative extension. Incremental methods (spFCM and oiFCM) that process data chunks sequentially. Extension of VAT to scalable VAT (sVAT) for arbitrarily large square data.

sVAT marries single linkage (SL), resulting in two offspring: scalable SL and clusiVAT. Time and accuracy comparisons of clusiVAT to crisp versions of the three FCM models and CURE. Experiments on 48 synthetic data sets of Gaussian clusters, and three real world data sets (Iris, Forest and the KDD-99 cup). For example, clusiVAT recovers 97.06

Attendance: 38

Professor Bezdek is a Distinguished Lecturer and Life Fellow of IEEE. He is well-known for developing the fuzzy c-means (FCM) algorithm, considered as one of the most important discoveries in fuzzy pattern recognition, and is the clustering algorithm of choice for most practitioners in fuzzy exploratory data analysis. According to Thomson Scientific ISI, Bezdek is among the top 250 most cited researchers in the world in the field of Engineering. As evidence of his impact in the field, his work has generated almost 40,000 citations (with an H-index of 73) according to Google Scholar. Bezdek retired from the University of West Florida in Pensacola in 2007 and now holds an honorary position at the University of Melbourne.

Most of the attendees were from Griffith University, with around 5-7 from industry, Queensland University of Technology, and the University of Queensland. There was considerable active engagement during the seminars and the audience expressed keen interest in the topics. Many PhD students turned up for the talks, and confirmed afterward that they found the talks very informative, the speaker's delivery very captivating, and the content very useful in their own research.

The event was very successful and the IEEE Computational Intelligence Society Queensland chapter was thanked for its support.



# Computer Society Chapter



**MIKE ROBINSON**  
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## Committee:

Chair: Brian Lovell  
Vice-chair Andrew West  
Secretary: Mike Robinson

The Computer Society Chapter participated in ANZS-CON 2014. I conducted a Teacher-in-Service Program workshop for a group of conference attendees on Saturday July 5th. The workshop was well attended and the participants enjoyed the practical exercise, which was making a functional windmill from paddlepop sticks,

bits of wire, string, gladwrap, aluminium foil, strips of cardboard, and various odds and ends.

I hope to stage a second event in the near future, probably involving my 'Computing in the 1960s' lecture.



*TISP introduction for participating teams*



*A TISP workshop team ponders the problem of building a working windmill from odds and ends*

# Control Systems/Robotics and Automation Societies Chapter



**DR. MICHAEL KEARNEY**  
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In the first half of the year the IEEE Queensland Control Systems and Robotics and Automation joint chapter had three events.

- The first event was a technical seminar given by A/Professor Debraj Chakraborty from the Department of Electrical Engineering at the Indian Institute of Technology, Bombay. The topic of his talk was on feedback synthesis for time-optimal control problems. The particular focus of the talk was on the algebraic characterization of the switching surfaces in the optimal control problem and using this characterization to generate a feedback control law. Professor Chakraborty then applied this work to computing the Nash equilibrium feedback control policies for two-player time-optimal pursuit evasion games, and computing decentralized feedback control for min-max time consensus tracking of multi-agent systems that are communicating over directed graphs.
- The second event was another technical seminar. The speaker for this seminar was Dr. Rohan Shekhar from the Department of Mechanical Engineering at the University of Melbourne. The topic of the talk was ‘Robust Model Predictive

Control with Waysets’. In this talk, Dr. Shekhar first discussed why waypoints are used in navigation problems and why waypoints are not ideal in the presence of disturbances. He presented waysets (expanded waypoints) for navigation under disturbances and showed how wayset guidance, combined with model-predictive control and constraint tightening, can provide robustness guarantees for navigation problems involving bounded disturbances. The technique was then demonstrated using a UAV example, where the robustness is used to account for minimum speed constraints.

- The third event was an IEEE Control Systems Society distinguished lecture given by Professor Dragan Netic from the Department of Electrical and Electronic Engineering at the University of Melbourne. Professor Netic spoke on the potential use of techniques from control engineering for the diagnosis, management and treatment of neurological diseases. Specifically, the use of parameter/state estimation techniques driven by EEG signals to help predict epileptic seizures. Towards this end he presented work on the design of nonlinear observers for neural mass model.

# Engineering in Medicine and Biology Society Chapter



**PROFESSOR STEPHEN WILSON**  
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The Queensland EMBS chapter was welcomed recently at the annual Innovative in Cardiovascular Engineering Technology Laboratory (ICETLab) symposium. This was held at The Prince Charles Hospital campus and a number of chapter members and their students contribute to ongoing research in this area.

The Brisbane Convention and Entertainment Centre hosted a networking dinner for related societies in the biomedical engineering domain. It was a pleasure to

host Professor Nigel Lovell from UNSW who has been active in the EMBS Conference Committee. He shared with us his many insights into the conference bid process which the committee is pursuing at the moment.

We have plans in place for a student careers and networking event where pathways in our profession can be outlined for current and future undergraduate students. This is usually well received. A location will be announced shortly.

# Microwave Theory and Techniques/Antennas and Propagation Societies Chapter

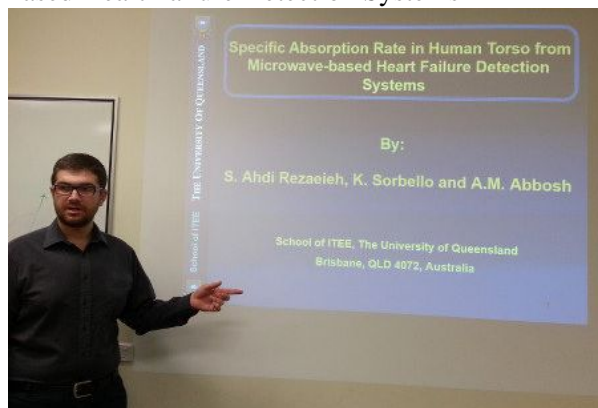


**DR. KONSTANTY BIALKOWSKI**  
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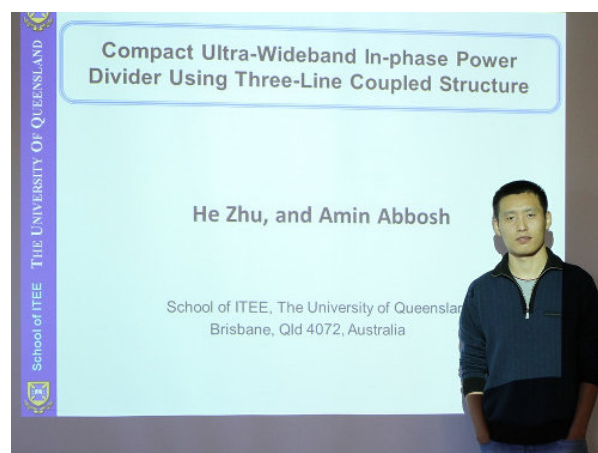
This year we have continued the efforts of last year, with our new committee including myself as chair, Greg Hislop as vice-chair and Morteza Shahpari as secretary. We are pleased to announce that the MTT/AP chapter received an MTT Outstanding Chapter Award for 2013. The MTT Society awards this to a limited number of chapters each year. Our award was presented at the IEEE IMS-2014 symposium in Tampa, Florida. We would like to announce that one of the 2014 Fall (northern hemisphere season) MTT-S undergraduate/pre-graduate scholarship awardees is our local MTT chapter student member Laurence Cheung. The award will be presented in the 2015 IMS conference in Phoenix, Arizona in June next year. He is an undergraduate student at the University of Queensland. Approximately 10 awards are given every 6 months. The MTT and AP societies offer undergraduate and postgraduate scholarships to students undertaking a project in the area of microwaves, antennas and propagation. The undergraduate award has a purpose to attract more BEng/BSc or MEng/MSc students to the microwave and RF discipline, encouraging them to pursue a job or PhD in the field. The graduate/research awards are specifically for research/PhD students. In June this year we had our first of two workshops for postgraduate and early career researchers. This workshop is seen as a golden opportunity for our members about to attend a conference, preparing for their confirmation, finishing their theses or just gaining experience in presenting their work. This time the event was selected to be close to the upcoming IEEE antennas and propagation symposium (APS), and past IEEE international microwave symposium (IMS) conferences. The topics and presenters included:

- Sasan Ahdi Rezaeieh - (1) Specific Absorption Rate

in Human Torso from Microwave-based Heart Failure Detection Systems (2) Miniaturisation Techniques for Antennas Designed for Microwave-Based Heart Failure Detection Systems

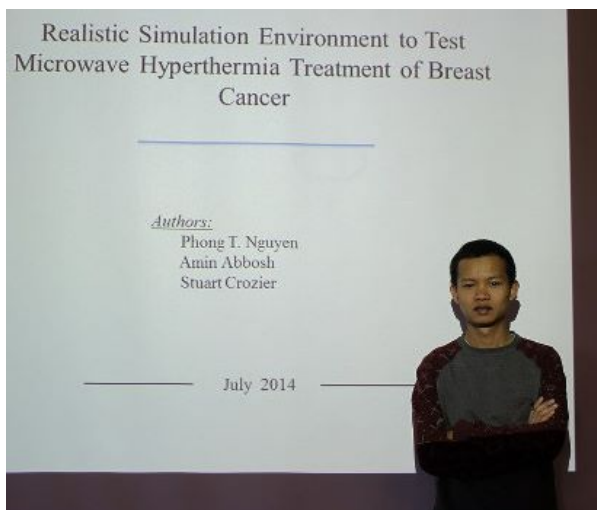


- He Zhu - Compact Ultra-Wideband In-phase Power Divider Using Three-Line Coupled Structure

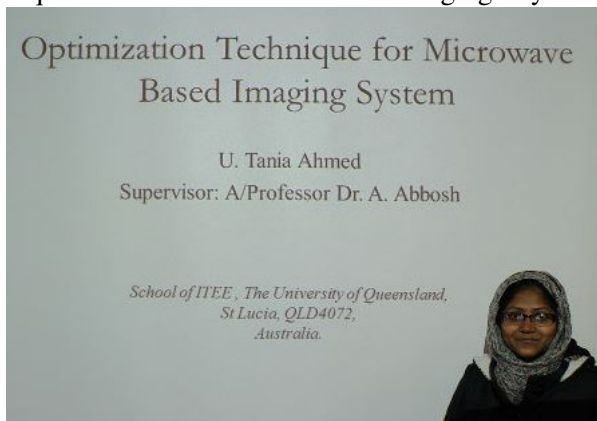


- Phong Ngyuen - Realistic Simulation Environment to Test Microwave Hyperthermia Treatment of Breast Cancer

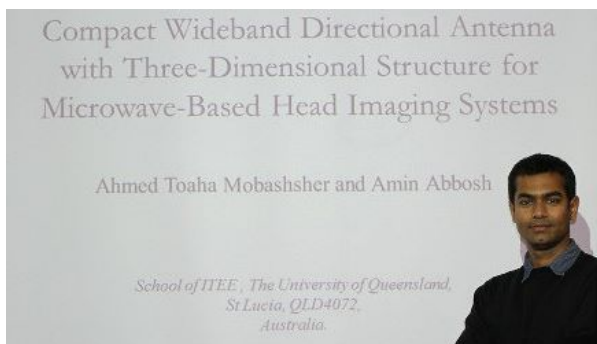




- Tania Ummee Ahmed - Optimization Technique for Microwave Based Imaging System

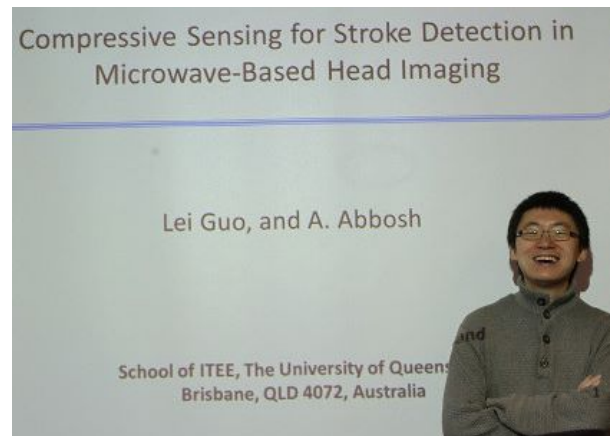


- Ahmed Toaha Mobashsher - Compact Wideband Directional Antenna with Three-Dimensional Structure for Microwave-Based Head Imaging Systems



- Jayaseelan Marimuthu - Software defined Radar

- Lei Guo - Compressive sensing for stroke detection in Microwave-Based head imaging



As in previous years, we aim to have our second event towards the end of the year (November/December). We would like to encourage students from each of the universities to present at our next workshop. Please stay tuned for the upcoming date of this event on our website.

In the second half of this year we have a number of interesting events, including one from AP society distinguished lecturer Dr Brian Kent. He will be presenting a talk entitled: 'Characterization of Space Shuttle Ascent Debris Based on Radar Scattering and Ballistic Properties and Evolution of the NASA Debris Radar (NDR) System' which will be held at the University of Queensland on the 3rd November 2014. The meeting will be a free event and like many of our events is open to non-IEEE members as well. We feel that the talk will be of particular interest.

Please see the [vTools](#) meeting notice.

Brian is a Consultant in Aerospace, Science, and Technology, and an adjunct professor of Electrical Engineering with Michigan State University's Department of Electrical Engineering. He recently completed 37 years of Service to the United States Air Force having most recently served as the Chief Technology Officer of Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. As CTO, he was AFRL's principal scientific and technical expert for a 6,500 person organization while overseeing a \$2.2B+ research portfolio.

Please visit our chapter [home page](#) to see more of the upcoming events for 2014 and 2015 as well as a nice summary of past events for 2014.

# Power and Energy Society Chapter



**DR. CHANDIMA EKANAYAKE**  
chandima@itee.uq.edu.au

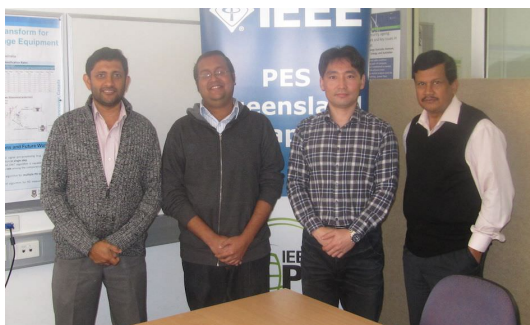
The PES chapter is pleased to announce that it has been awarded \$US2,500 under the IEEE Power and Energy Society's 'Member Driven Initiatives' program. The prize money will be used to fund the chapter's 'Queensland Power System Roadmap' project.

The chapter has organised several activities during this reporting period, as presented below.

## 1. Awards

- **PES Student Travel award**  
The IEEE Queensland PES chapter awarded two Student Conference Travel prizes each worth \$1000. In 2014 the chapter received 15 applications from students at Queensland universities to attend and present papers at the 2014 IEEE PES General Meeting in Washington, DC, USA.

Mr. Nahid-Al Masood (second from left below) and Mr Junhyuck Seo (second from right below) were the winners in 2014. The award winners will receive a certificate from IEEE Queensland Section during the section's Annual General Meeting.



*Prizewinners with PES Chapter Chair Chandima Ekanayake (left) and IEEE Queensland Chair Tapan Saha (right)*

- **PES Outstanding Engineer award**  
The IEEE Queensland PES chapter launched the 'Outstanding Engineer Award' in 2010. In 2013 Professor Gerard Ledwich, Professor of Electrical Engineering at Queensland University of Technology, was recognized as the year's outstanding engineer and the 'IEEE Power and Energy Society of Queensland Outstanding Engineer Award' plaque was presented to him during the Microgrid Modelling seminar on 25th June 2014 by former chapter Chair Dr. Mehdi Eghbal.



*Dr. Mehdi Eghbal presents Professor Gerard Ledwich with the Outstanding Engineer Award*

## 2. Seminars

- **Title:** 'Industry Practices on Out-of-Step Protection and Grid Islanding Schemes'  
**Date :** Wednesday 16th April 2014  
**Time :** 10:30 - 11:45 hrs  
**Venue:** McCorkell Room, Powerlink

Queensland, Virginia

No. of attendees : 38 guests, 8 IEEE members

Summary: This seminar covered topics on standard industry practices on out of step protection of generators and grid islanding schemes. The methods include: Concentric Characteristic Schemes, Blinder Based Schemes, R-Rdot Schemes, Swing Centre Voltage Methods, Equal Area Criterion, Rate of Change of Frequency based methods etc. Detecting loss of excitation and identifying loss of excitation from power swings has been discussed. Distance protection requirements, effects of distributed generation, faults following power swing were also discussed. Case examples using electromagnetic simulations have been discussed for setting the blinder based schemes. Methods to improve transient stability: high speed fault clearing, turbine fast valving, power systems stabilizers were discussed.

This seminar also discussed some of the modern industry schemes (currently being investigated) using synchrophasor based relaying. The usefulness of real time hardware in the loop summation simulations for analyzing out of step protection was discussed. Speaker: Dr. Ramakrishna (Rama) Gokaraju graduated with Distinction in Electrical and Electronics Engineering in April 1992 from the Regional Engineering College (National Institute of Technology), Trichy, India. He obtained M.Sc. and Ph.D. degrees in Electrical and Computer Engineering from the University of Calgary, Calgary, Canada in June 1996 and May 2000, respectively. He joined the Department of Electrical and Computer Engineering at the University of Saskatchewan as an Assistant Professor in July 2003 and is currently an Associate Professor. He is a tenured faculty member at the University of Saskatchewan. During his sabbatical leave (2009-2010 academic year), Dr. Gokaraju worked as a Vis-

iting Professor in the Power Simulations Laboratory, Department of Electrical and Computer Engineering, University of Manitoba, Winnipeg, Canada.

During the period 1992-1994, he worked at Larsen and Toubro-ECC, Madras, India as a Graduate Engineer, and the Indian Institute of Technology, Kanpur, India as a Project Associate.

During the period 1999-2002, he worked at the Alberta Research Council, Calgary, Canada as a Research Scientist and IBM Toronto Lab, Toronto, Canada as a Staff Software Engineer.

Dr. Gokaraju is a registered professional engineer in the Province of Saskatchewan.

Dr. Gokaraju's current areas of research are in Wide Area Protection, Control and Transient Stability Prediction, Real Time Power Systems Simulations, Power Hardware in the Loop.



*Dr. Gokaraju presenting the seminar*

- A seminar on Transformer Fire Safety Practices (A joint activity with Engineers Australia's Queensland Electrical Branch)  
Date : Thursday 22nd May 2014

Time : 17:30 - 19:00 hrs

Venue: Engineering House, 447 Upper Edward Street, Brisbane

No. of attendees : 24 guests, 12 IEEE members

Summary: The risk of a transformer causing a fire is low, but not negligible and the consequences can be very severe if it does occur. The issue of transformer fire safety is therefore of major concern for utilities and other transformer users. It was for this reason Cigre formed an international working group comprising technical specialists from major utilities and transformer manufacturers to study the topic and write a guide document for Transformer Fire Safety. This guide document was published in June 2013 as Cigre's Technical Brochure No. 537 - Guide to Transformer Fire Safety Practices. It is Cigre's and also the presenter's view that the availability and content of this guide should become known to as many designers and users of transformers as possible. For this reason he has made tutorial presentations based on the contents of the guide at Cigre Colloquium in Zurich Sept. 2013, Asia Pacific TechCon Sydney 2014, and has accepted the invitation to conduct this tutorial presentation on the topic of transformer fire safety. The content of his presentation covered: Fire physics and typical transformer fire scenarios; The probability of a transformer fire and how to determine the probability and risk applicable for specific transformer installations; Internal arcing and tank ruptures the probability, the causes, and mitigation measures available; Fire risk and performance analysis what and how; Fire risk mitigation options for transformers; Transformer fire damage control practices; and the importance of planning for a fire event.

Speaker: Arne Petersen received a degree in High Voltage Engineering [Distinction] from Odense Technical Institute in Denmark; Bsc. El. Eng Power [Honours De-

gree] from RMIT Melbourne; and an MBA Degree from the University of Queensland. He has 5 years experience as a transformer design engineer, 3 years as a power station design engineer, 27 years as a transformer specialist and manager of HV Plant for Powerlink Queensland. He currently works as a self-employed consulting engineer, specialising in transformer technology. He has conducted many investigations into transformer failures and fires in Australia and SE Asia.

He is a chartered engineer and a Fellow of the Institution of Engineers of Australia. He is an active member of Cigre, both in Australia and internationally, and is currently a technical advisor to Cigre's Study Committee for transformers [SCA2] and member of Cigre WG A2.24 for Transformer Loading Capabilities. He was the convenor of Cigre working group WG A2.33 and also the editor and key writer for the recently published Cigre Technical Brochure: # 537 'Guide For Transformer Fire Safety Practices'.

He has also published and presented many technical papers on transformer topics at Cigre Paris Sessions and other transformer engineering conferences in Australia and overseas.



*Mr. Arne Petersen addressing the audience*

- A seminar on Microgrid Modeling and Research at the Center for Electromechanics,



University of Texas at Austin, Texas, USA

Date : Wednesday 25th June 2014

Time : 15:30 - 16:30 hrs

Venue: Mansergh Shaw Building 45, Room 204, Staff House Road, The University of Queensland, St Lucia, Queensland.

No. of attendees : 30 guests, 20 IEEE members

Summary: The Center for Electromechanics (CEM) at the University of Texas at Austin is an active participant in the university's efforts to develop advanced modeling and control algorithms for islanded microgrids. Facilities at CEM are available to set up MW level power grids with voltages up to 1.2 kV in a laboratory setting for control demonstration and modeling validation. In addition to on-site facilities, CEM collaborates with local utilities and organizations like the Pecan Street project for real-world data collection of grid energy use and renewable energy generation. This data allows researchers at CEM to investigate grid stability due to increased load variability with renewable sources and identify areas where energy storage can be implemented through computer simulation. This presentation covered the current work at CEM in the areas of microgrid research. In addition to testing and simulation capabilities, the presentation discussed work on energy-storage sizing for microgrids and identification of stability margins based on line loss, ramp rates, and grid inertia.

Speaker : Dr. Clay S. Hearn obtained BS and MS degrees in mechanical engineering from the University of Texas at Austin in 2001 and 2008, respectively. In August of 2013 he finished his Ph.D. in mechanical engineering from the University of Texas with a focus on dynamic system modeling and controls. Since 2002 he has been a Research Engineer at the Center for Electromechanics at the University of Texas at Austin. His work has focused on modeling, analysis, and control of energy storage

for various applications, including hybrid vehicles, grid utilities, renewable energies, and pulsed power. He has employed dynamic modeling and control techniques to access potential performance improvements for heavy hybrid vehicles, marine, and microgrid applications by evaluating the addition of energy storage options, including flywheels, lithium ion batteries, and ultracapacitors. Additional work has included machine design analysis for high-speed composite flywheel-energy storage systems and development of lumped parameter modeling methods for high-temperature superconducting bearings.



*Dr. Clay Hearn's presentation*

- Distribution level FACTS devices for improved load capability and solar integration.  
Date : Tuesday 26th August 2014  
Time : 15:30 - 17:30 hrs  
Venue: Engineering House, 447 Upper Edward Street, Brisbane  
No. of attendees : 60 guests, 30 IEEE members  
Summary: Flexible AC Transmission or FACTS devices, such as static compensators (STATCOMs) and Unified Power Flow Controllers (UPFCs) can be directly applied in the low-voltage distribution system to regulate network voltages while simultaneously balancing the network currents. This allows a given distribution network to ac-

commodate higher levels of distributed photovoltaic generation and, in many voltage-limited cases, increase the capacity of the network to carry conventional loads.

The presentation examined some recent advances in the application of silicon carbide to LV distribution level applications, progress in reducing the need for large DC bus capacitors, opportunities to host-integrated storage, and methods to best allocate limited FACTS device capacity in a LV network.

Speaker: Professor Peter Wolfs is the Deputy Dean of Research for the School of Engineering and Technology and the Director of the Power and Energy Center at Central Queensland University. Prior to 2013 he was the Western Power Chair in Electrical Engineering at the Curtin University of Technology, in Perth, Australia.

His research interests include power electronics applications in distribution networks and railway power systems, distribution systems and demand modeling, the impact of energy storage and high levels of renewable energy penetration, distributed and networked control of distribution networks, and the intelligent protection of distribution systems especially for bushfire prevention. At Curtin University he was the program leader for smart grids within the Center for Smart Grid and Sustainable Power Systems. Professor Wolfs is the author of more than 200 journal and conference publications and has secured in excess of \$3Million in competitive research funding. He serves on the Research Working Group of Smart Grids Australia.

Professor Wolfs is a reviewer for the IEEE Transactions on Power Delivery, Power Electronics, Vehicular Technology, Circuits and Systems, Industrial Electronics, Sustainable Energy, the IEEE ECCE Conferences and the IEEE/ASME Joint Rail Conferences. Professor Wolfs was the Technical Chair of the IEEE Power and Energy So-

ciety's Innovative Smart Grid Technology Conference, ISGT Asia 2011. He is a reviewer for the Australian Research Council Discovery, Linkage and Fellowship Grant Applications.

Professor Wolfs is the Chair of the Australian Committee for Power Engineering (ACPE). ACPE manages the Australasian Universities Power Engineering Conference series. The ACPE conference series is in its 24th year and its papers appear in IEEE Xplore.

Professor Wolfs holds a PhD from the University of Queensland, a Master of Electronic Engineering from the Philips International Institute in Eindhoven, the Netherlands, and a Bachelor of Engineering Degree from Central Queensland University. He is a Senior Member of IEEE, a Chartered Professional Engineer and Fellow of Engineers Australia. He appears on the Australian National Professional Engineering Register as an electrical engineer. Professor Wolfs is a Registered Professional Engineer in the state of Queensland.



*Professor Peter Wolf's presentation*

### 3. CPD courses

- A CPD workshop organized with Engineers Australia's Queensland Electrical Branch  
Title: 'Electrical Insulation Fundamentals'  
Date : Thursday 8th May and Friday 9th May, 2014.  
Time : 09:00 - 17:00 hrs (both days)  
Venue: Hawken Auditorium, Engineering House. 447 Upper Edward Street, Brisbane 4000.  
IEEE PES Student Registration: Six IEEE Queensland Section PES students partici-



pated in this event at a discount rate of 10% off full registration.

Summary: Electrical insulating materials are the backbone of power transmission and distribution equipment. If the insulation properties of the material degrade and it is not able to withstand the continuous or transient voltage, the equipment will fail catastrophically.

This seminar reviewed the fundamentals of electrical insulation. It explained the insulating structures found in high voltage equipment such as switchgear, transformers, outdoor insulators and cables.

Common insulation degradation problems

such as ageing and partial discharges were described. Standard diagnostic techniques to monitor the state of the insulation in power transmission and distribution equipment were presented by specialists in each type of equipment.

Speakers: Eight distinguished presenters representing Australian industry and academia in the fields of electrical insulation and diagnostics of high voltage equipment were brought together to address this fundamental topic in electrical power engineering.

# Signal Processing and Communication Societies Chapter



**DR. GARRY EINICKE**  
Garry.Einicke@csiro.au

## **Committee:**

Chair: Garry Einicke

Vice-chair Vaughan Clarkson

Secretary: Dhammika Jayalath

- Previous Events

The Journal Paper Club meetings which are organised by Vaughan Clarkson continue throughout 2014. The purpose of these meetings is to select important papers and explain their contributions to our local audience. In the last meeting on the 3rd June 2014, Andrew Smith discussed the classic tutorial on the particle filter, the #1 most downloaded paper for its journal over the last decade.

Vaughan Clarkson was the Local Arrangements Chair for the 2014 IEEE Workshop on Statistical Signal Processing, which was held at the Gold

Coast on 29 June – 2 July 2014. The presented papers will be published on IEEE Xplore.

- Next Events

A research seminar on ‘Allan Variance Estimation for Inertial Navigation Systems’ by Dr John Malos has been postponed for September 2014.

A distinguished lecture tour is being organised. Professor V. John Mathews, University of Utah, will be presenting on ‘Signal Processing for Structural Health Monitoring’ in Townsville and Brisbane on 22 and 24 October 2014.

## 2014 IEEE Queensland Section Office Holders

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<b>Power &amp; Energy Society</b>		
<b>Dielectrics and Electrical Insulation Society Joint Chapter</b>		
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# 2015 Call for Nominations for IEEE Queensland Section office holder positions

All positions within the Queensland Section and its Chapters and Affinity Groups will be vacant in 2015. The term will be from 1st January to 31st December, 2015.

Names of past and current section office holders can be found on Queensland sections website: [www.ieee.org/queensland](http://www.ieee.org/queensland).

Nominations for the section, chapters and affinity groups should be submitted to the Chair of the relevant nominating committee by email to the given address by 31st October 2014.

The following pages include 'call for nomination' letters for the 2014 IEEE Queensland Section elections. Please read the letters and consider nominating for any positions that you may be eligible for.

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## **2015 Call for nominations: Officers and Members for the Executive Committee of the IEEE Queensland Section**

**PROF. NEIL BERGMANN**  
**[bergmann@itee.uq.edu.au](mailto:bergmann@itee.uq.edu.au)**

Dear members,

The Queensland Section of IEEE has a proud tradition of volunteer service to the community of technology professionals.

Worldwide, the IEEE has over 429,000 members in more than 160 countries. The Queensland Section was established in 1985 and has been growing strongly in recent years and currently has close to 1100 members. Moreover, the Section is in a financially strong position with over \$80,000 in reserve to support member activities.

I am now calling for nominations for officers and members of the IEEE Queensland Section executive committee in 2014.

According to the IEEE MGAB manual that governs our Section, all elected offices and other positions on the executive committee will become vacant on 31st December, 2014. I am therefore calling for nominations for the elected offices of:

- Chair
- Vice Chair
- Treasurer
- Secretary

**Eligibility:**

To be eligible, a nominee must be an active (i.e., financially current) IEEE member of the Graduate Student Member, Member, Senior Member or Fellow grade and belong to the Queensland Section. Volunteers who have served two consecutive years in office immediately prior to 2014 are ineligible for further service in the same office.

**Term:**

The new committee will serve from 1st January until 31st December, 2015.

**Duties:**

The duties of the officers are as follows:

1. The Section Chair shall serve as Chair for all meetings of the Section, the Section Committee and the Section ExCom.
2. The Section Vice-Chair shall assist the Chair in the coordination of all Section activities. At the request of the Section Chair or in the absence of the Section Chair, the Section Vice-Chair shall chair meetings of the Section Executive Committee.
3. The duties of the Section Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting and officer reports to the Member and Geographic Activities Department at the end of each year and such other duties as are assigned to him/her by the Chair.
4. The duties of the Section Treasurer shall include the development of a Section budget for approval by the Section, accounting of all Section funds, keeping financial records, and submitting the Financial Operations Report of the Section to the IEEE Staff Director, Financial Services.

Furthermore, I am also calling for nominations for the positions of:

- Chairs of the following Standing Committees:
  - Membership Development and Email Committee
  - Professional/Career Activities Committee
  - Student Activities Committee
  - Educational Activities Committee
  - Awards & Recognition Committee
- Webmaster
- Newsletter Editor

**Nominations should be submitted to me as the Chair of the Section Nominating Committee by email to the address given below by 31st October 2014.**

The Nominating Committee, being *Prof. David Thiel, A/Prof. Vaughan Clarkson and I*, will then prepare a list of candidates for Chair, Vice-Chair, Secretary and Treasurer for election by Section members (if necessary) in accordance with IEEE by-laws. The other positions mentioned above will be confirmed (or elected if necessary) at the

Section's Annual General Meeting, due to be held on 28th of November, at St Leos College in St Lucia.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Prof. Neil Bergmann

Chair, IEEE Queensland Section Nominating Committee for 2015

Email: [bergmann@itee.uq.edu.au](mailto:bergmann@itee.uq.edu.au)

## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Aerospace and Electronic Systems Society Chapter**

**DR. DAMIEN DUSHA**  
**d.dusha@gmail.com**

Dear members,

The Queensland Aerospace and Electronic Systems Society Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Aerospace and Electronic Systems Society. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Dr. Damien Dusha  
Chair, IEEE Queensland Section Aerospace and Electronic Systems Society Chapter Nominating Committee for 2015  
Email: d.dusha@gmail.com

## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Computational Intelligence Society Chapter**

**ROB ELLEN**  
**rellen@ieee.org**

Dear members,

The Queensland Computational Intelligence Society Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Computational Intelligence Society. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Rob Ellen  
Chair, IEEE Queensland Section Computational Intelligence Society Chapter Nominating Committee for 2015  
Email: rellen@ieee.org



## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Computer Society Chapter**

**XUE LI**  
**xueli@itee.uq.edu.au**

Dear members,

The Queensland Computer Society Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Computer Society. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Xue Li  
Chair, IEEE Queensland Section Computer Society Chapter Nominating Committee for 2015  
Email: xueli@itee.uq.edu.au

## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Control Systems/Robotics and Automation Societies Chapter**

**MICHAEL LEES**

**michael.lees@FOSTERSGROUP.com**

Dear members,

The Queensland Control Systems/Robotics and Automation Societies Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Control Systems/Robotics and Automation Societies. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Michael Lees

Chair, IEEE Queensland Section Control Systems/Robotics and Automation Societies Chapter Nominating Committee for 2015

Email: michael.lees@FOSTERSGROUP.com

## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Engineering in Medicine and Biology Society Chapter**

**PHILIP TERRILL**  
**pterrill@itee.uq.edu.au**

Dear members,

The Queensland Engineering in Medicine and Biology Society Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Engineering in Medicine and Biology Society. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Philip Terrill  
Chair, IEEE Queensland Section Engineering in Medicine and Biology Society Chapter Nominating Committee for 2015  
Email: pterrill@itee.uq.edu.au

## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Microwave Theory & Techniques and Antennas & Propagation Societies Chapter**

**AMIN ABBOSH**  
**a.abbosh@uq.edu.au**

Dear members,

The Queensland Microwave Theory & Techniques and Antennas & Propagation Societies Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Microwave Theory & Techniques and Antennas & Propagation Societies. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws. IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Amin Abbosh  
Chair, IEEE Queensland Section Microwave Theory & Techniques and Antennas & Propagation Societies Chapter  
Nominating Committee for 2015  
Email: a.abbosh@uq.edu.au

## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Power and Energy Society Chapter**

**TAPAN SAHA**  
**saha@itee.uq.edu.au**

Dear members,

The Queensland Power and Energy Society Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Power and Energy Society. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Tapan Saha  
Chair, IEEE Queensland Section Power and Energy Society Chapter Nominating Committee for 2015  
Email: saha@itee.uq.edu.au



## **2015 Call For Nominations: Chapter Officers for the Committee of the IEEE Queensland Section Signal Processing and Communications Societies Chapter**

**DR. ANDREW BRADLEY**  
**bradley@itee.uq.edu.au**

Dear members,

The Queensland Signal Processing and Communications Societies Chapter prides itself in its efforts to sustain and grow our technical community through the organisation of seminars and activities that inform our members of latest developments, as well as promote collegiality and networking.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Chapter Nominating Committee is therefore seeking nominations of volunteers for offices in the new Chapter committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Signal Processing and Communications Societies. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chapter Chair shall serve as Chair for all meetings of the Chapter and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Chapter Vice-Chair shall assist the Chair in the coordination of all Chapter activities. At the request of the Chapter Chair or in the absence of the Chapter Chair, the Chapter Vice-Chair shall chair meetings of the Chapter or represent the Chapter at the Section Execom meetings.
3. The duties of the Chapter Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Chapter Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by Chapter members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Dr. Andrew Bradley  
Chair, IEEE Queensland Section Signal Processing and Communications Societies Chapter Nominating Committee for 2015  
Email: [bradley@itee.uq.edu.au](mailto:bradley@itee.uq.edu.au)

## **2015 Call For Nominations: Officers for the Committee of the IEEE Queensland Section Young Professionals Program Affinity Group**

**DR. DAMIEN DUSHA**  
**d.dusha@gmail.com**

Dear members,

The Queensland Young Professionals Program Affinity Group is a vibrant community of young engineers, scientists, and technical experts. Young Professionals Program members have a wide variety of benefits and opportunities available to them through IEEE membership. These highlighted benefits are geared towards the needs and interests of young professionals and revolve around professional growth, community, and technical development.

All elected offices and other positions on the executive committee will become vacant on 31st December, 2014. The Young Professionals Program Nominating Committee is therefore seeking nominations of volunteers for offices in the new executive committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of the Young Professionals Program affinity group (all IEEE members who have graduated with their first professional degree within the last ten years are automatically a member of IEEE Young Professionals Program). The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chair shall serve as Chair for all meetings of the affinity group and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Vice-Chair shall assist the Chair in the coordination of all affinity group activities. At the request of the Chair or in the absence of the Chair, the Vice-Chair shall chair meetings of the affinity group or represent the affinity group at the Section Execom meetings.
3. The duties of the Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of the Young Professionals Program Nominating Committee by email to the address given below by 31st October 2014. The nominating committee will then prepare a list of candidates for election by Young Professionals Program members in accordance with IEEE by-laws. IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Dr Damien Dusha  
Chair, IEEE Queensland Section Young Professionals Program Affinity Group Nominating Committee 2015  
Email: d.dusha@gmail.com

## 2015 Call For Nominations: Officers for the Committee of the IEEE Queensland Section Women in Engineering Affinity Group

**ROBERT ELLEN**  
**rellen@ieee.org**

Dear members,

The Queensland Women in Engineering Affinity Group is a vibrant community of engineers, scientists, and technical experts. The mission of IEEE WIE is to facilitate the global recruitment and retention of women in technical disciplines. IEEE WIE envisions a vibrant community of IEEE women and men collectively using their diverse talents to innovate for the benefit of humanity.

All elected offices and other positions on the executive committee of WIE Queensland will become vacant on 31st December, 2014. The WIE Nominating Committee is therefore seeking nominations of volunteers for offices in the new executive committee who would be prepared to further its mission. Nominations are sought for the positions of Chair, Vice-Chair and Secretary.

### **Eligibility:**

To be eligible, a nominee must be an IEEE Graduate Student Member, Member, Senior Member or Fellow grade and a member of IEEE Women in Engineering. The new committee will serve until 31st December, 2015.

### **Duties:**

The duties of the officers are as follows:

1. The Chair shall serve as Chair for all meetings of the affinity group and be its representative on the Queensland Section Executive Committee (which meets once a month).
2. The Vice-Chair shall assist the Chair in the coordination of all affinity group activities. At the request of the Chair or in the absence of the Chair, the Vice-Chair shall chair meetings of the affinity group or represent the affinity group at the Section Execom meetings.
3. The duties of the Secretary shall include correspondence, the keeping of the minutes of the Committee meetings, mailing notices, and submission of meeting reports to the Queensland Section Secretary or Secretary/Treasurer and to IEEE Headquarters directly at the end of each year and such other duties as are assigned to him/her by the Chair.

Nominations should be submitted to me as the Chair of WIE Nominating Committee by email to the address given below by 31st October 2014. I, with the nominating committee, will then prepare a list of candidates for election by WIE members in accordance with IEEE by-laws.

IEEE and its membership greatly value the contributions of its volunteers. I hope you will consider volunteering for an office in the new committee.

Yours faithfully,

Robert Ellen  
Chair, IEEE Queensland Section Women in Engineering Affinity Group Nominating Committee for 2014  
Email: rellen@ieee.org