

Institute of Electrical and Electronics Engineers
Queensland Section (ABN 67 431 648 974)
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 third newsletter of 2014. We are not very far from the AGM, which is just 6 weeks away (3rd December 2014). Please note in your diary to attend the 2014 AGM. We will be looking for volunteers to serve on the 2015 IEEE Queensland Section executive committee, eight Technical Chapters and two affinity groups.

We circulated the call for nominations in the last newsletter. This will be circulated again in the current newsletter. I sincerely hope you can consider to serve as a volunteer and nominate for a Section position, in a technical chapter or in an affinity group (Women in Engineering and Young Professionals Program). Please drop an email to the Chair of the respective nominating committee if you are interested in joining the volunteer team.

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 the 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.

We recently formed a joint chapter of Power and Energy Society (PES) and Dielectric and Electrical Insulation Society (DEIS). This will allow the joint chapter of PES and DEIS to provide technical services to engineers and scientists working both in the areas of power and energy systems and in electrical insulation.

I recently attended the IEEE Sections Congress 2014 (SC2014) in Amsterdam, Netherlands, at the Rai Convention Center, from 22 to 24 August 2014. Sections Congress is a triennial gathering of IEEE grassroots leadership to network with other Section leaders, attend training programs, and develop recommendations to guide the

future of IEEE.

I also attended the Region 10 meeting on the morning of 22nd August. The meeting was very helpful to understand the issues relevant to Region10. I attended an Australia Council meeting on the afternoon of 22nd August. I attended many other activities during the next two days related to Section leadership, management and other relevant matters.

One of the main tasks of the Section Congress was selecting five major recommendations by the primary section delegates.

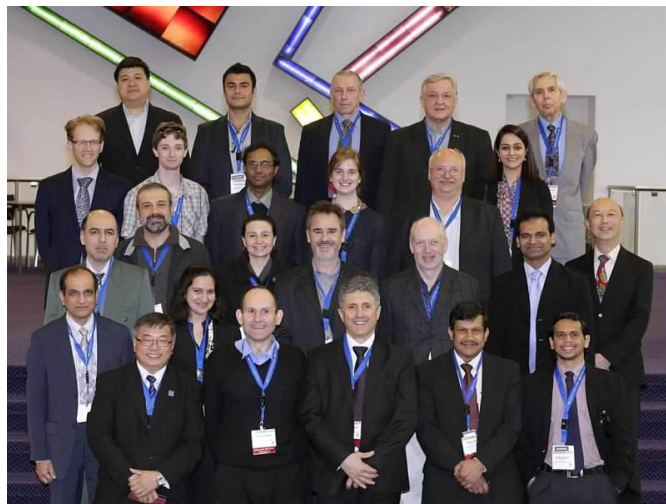
The Primary Section Delegates voted on various suggestions and the final top five recommendations are:

- Include free access to IEEE Digital Library as a member benefit. Promote other IEEE services and products based on their usage and preferences (adopt Google Business Model).
- Develop an incentive and recognition program for companies that invest in full or partial support of their employees' IEEE membership dues.
- Introduce loyalty rewards such as publication access, conference fees, standards for continued membership.
- Provide a tool to build, promote, record, host and broadcast technical events at the local level and make them available to IEEE members.
- Enhance vTools for better usability by volunteers and provide a training program to the Sections.

More information about the Section Congress recommendations can be obtained [here](#).



Official delegates of Section Congress (Queensland Section Chair: 4th row, 4th from the left)



Official delegates of Australia and New Zealand Council Members attending SC-2014 (Queensland Section Chair: front row, 2nd from the right)

Section Vice-chair's report



DR. DANIEL (MEHDI) EGHBAL
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Membership elevation

I am pleased to report that the first senior membership elevation event was held at St Leos College at The University of Queensland on October 22nd. 30 IEEE members and senior members attended the BBQ.

In 2014 the Queensland section formed a senior membership elevation committee to facilitate the elevation process for ordinary IEEE members. The BBQ event was organised to provide an opportunity for members to meet IEEE volunteers and senior members and submit their application.

13 members who were not able to attend the BBQ had emailed their application forms prior to the event and 18 members submitted their application during the BBQ.

The Queensland section chair, Professor Tapan Saha, welcomed the attendees and gave a report on sections activities and upcoming events. Then the elevation process was explained briefly and completed application forms were received.

The majority of the applicants could not find three senior member referees for their application, which is a major stumbling block for members wishing to upgrade to senior member level. Queensland sections senior membership elevation committee will assign three references for each application and submit it online.

I would like to thank the members who applied for senior membership and wish them all the best.

Also, I would like to thank the IEEE Queensland Section for its financial support in staging the BBQ.

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.



IEEE Queensland Section members enjoying the Senior Members BBQ

Acting Newsletter editor's report



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

This issue has fewer entries than the August edition, but I hope you will find it interesting nonetheless. Despite a shaky period in the middle of the year it looks like the section will produce four newsletters in 2014.

I have long held the view that the newsletter should contain more than information about chapter, affinity group, and student branch activities. While items such as those are necessary, especially for future chroniclers of the section's activities, they should not be the sum total of what the newsletter is. I believe the newsletter should also contain articles that inform members in a more general way, or even articles that stimulate debate among section members. An example of the latter would be an article on university rankings, the topic covered at the recent meeting of the First Tuesday Journal-Paper Club (see [page 17](#)).

In this spirit I'm pleased to welcome Jan McSweeney as a contributor to the newsletter. Jan is a former member of the section's executive committee. Jan will write a series of articles highlighting the important contributions women have made to science, the arts, and humanity in general. In this edition Jan sheds light on three pioneering women from Brisbane's recent past.

If you feel you have within you some delicious morsels of information that the wider membership would enjoy reading about, or if you would like to open up a debate about an area of science or technology that interests you and it isn't already covered by the newsletter, please contact me to arrange publication. No more than two pages please.

This month I will follow my recommendation for

change by looking back into the past, back to the year 2004. What was happening in the section 10 years ago?

The energetic Dr Renate Sitte was section chair, and her vice-chair was Dr Tapan Saha, now Professor Saha, the current section chair. The webmaster, Craig Mills, was busy creating the section's second [website](#).

The section was also setting up a web-conferencing system to facilitate the equivalent of today's webinars. An IEEE presentation could be held at any of Brisbane's three universities and the other two universities would be connected in real-time via a live link. A presenter at Griffith could interact with an audience at QUT and UQ. This revolutionary approach overcame the need to travel to where the presentation was being held. Skype, introduced in August 2003, could not deliver the same real-time experience as the inter-university system used by the Queensland Section.

The Power and Energy Society chapter, under chair Zhao Yang Dong, was busy organising the Australasian Universities Power Engineering Conference which was held at The University of Queensland on September 26th-29th, 2004. Unfortunately UQ has since purged the conference website from its servers. The chapter held two technical seminars during the year, each featuring an overseas presenter. "Ecogeneration in Australia" was presented by Professor Akhtar Kalam of Victoria University, and "New Tools for Analyzing Power System Dynamics" was presented by Professor Ian Hiskens, University of Wisconsin-Madison, USA.

The Computer Society Chapter was planning two events for 2004: "Next-Generation Networking: Solutions and Challenges" to be given by Distinguished Lecturer Professor Andrzej Jajszczyk, an IEEE Fellow from AGH University of Science and Technology,

Krakow, Poland; and “New developments in progressive image coding” by Dr. Taubman from the University of New South Wales. The first event was a combined venture with the Communications and Signal Processing joint chapter. The second event was somewhat tentative, and the chapter chair, Dr. Vinod Chandran, does not say if it occurred in July as scheduled. This sounds ominously familiar.

Meanwhile, over at the Control Systems/Robotics & Automation Joint Societies Chapter things were going gangbusters under founding chair Professor Ljubo Vlacic. Professor John Billingsley from the University of Southern Queensland presented “What is so special about Mechatronics?” on August 2nd, a joint venture with Engineers Australia. A “Workshop on Non-Linear Control” was staged in November, again in partnership with Engineers Australia. The workshop, presented by visiting professors Kokotovic, Krstic, and Mareels, then moved to Newcastle and Canberra. To cap off a brilliant and industrious 2003, the chapter was awarded Chapter of the Year by one of its parent societies in April 2004. This feat has not been equalled since by any of the Queensland Section’s chapters.

The joint Microwave Theory and Techniques and Antennas and Propagation Societies Chapter, under chair Ashley Robinson, was settling into its second full year. In November the chapter held a seminar entitled “Im-

proving Australia’s commercialisation performance”, presented by Dr. Rowan Gilmore, Chief Executive Officer, Australian Institute for Commercialisation at The University of Queensland.

The joint Communications and Signal Processing Societies Chapter, under founding chair Professor Sridha Sridharan, held a single event in conjunction with the Computer Society Chapter, which I’ve already mentioned above.

Student branches were active at Griffith University - Gold Coast Campus, Queensland University of Technology, and The University of Queensland. Two of the 2004 student branch councillors, Dr Ed Palmer (QUT) and Professor Tapan Saha (UQ) are still active in this field, though Ed Palmer is now at Central Queensland University, Rockhampton. An honours thesis prize of \$500 was up for grabs, as well as the Mat Darveniza student prize for “Properties and Applications of Dielectric Materials” with a prize of \$500 and a certificate.

I hope you’ve enjoyed this trip down memory lane. For some section members, myself included, it will be a completely new insight into the section; for others it will be a pleasant reminder of how much the section has developed since 2004. Finally, my thanks to all who contributed to this edition of the newsletter.



Dr Renate Sitte (far right) and members of the 2004 executive committee pictured at the 2003 Annual General Meeting



Chapter of the Year certificate awarded to the CSS/R&A joint chapter in April 2004

2014 Annual General Meeting



DR. DANIEL (MEHDI) EGHBAL
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Queensland Section's Annual General Meeting

IEEE Queensland Section's Annual General Meeting (AGM) and Dinner will be held on the evening of Wednesday December 3rd, 2014. The Section Committee cordially invites you to join us for this event. The AGM and Dinner will be a great way for you to meet with colleagues and network with other guests.

Date: Wednesday, December 3rd, 2014

Location: The University of Queensland, Sir Llew Edwards Building - Terrace Room

Map

Time: Arrive at 17:45 for an 18:00 start to the AGM.

RSVP: m.eghbal@uq.edu.au by November 28th 2014

Dinner speaker: TBA

If you have special dietary requirements please communicate them to m.eghbal@uq.edu.au when you register for the event. All menu items are halal compliant.

Cost for AGM: None

Cost for Dinner (includes drinks and a three-course meal):

IEEE and Engineers Australia members: \$40

Non-members: \$60

Payment options:

To facilitate better planning of the event there will be no 'pay at the door' option. Instead, payments for the dinner should be made to the Section's bank account by close of business Friday November 28th.

Bank account details:

Bank: bankmecu

Account name: IEEE Qld Section A/C

Account number: 305832

BSB code: 313-140

Please make sure your name appears on the payment advice from your financial institution. If you are attending the AGM and not the dinner, please make this clear when you submit your RSVP.

Detailed Schedule:

18:00 - AGM starts

19.00 - Entree served at Sir Llew Edwards Building - Terrace Room

19.30 - Guest speaker

20.00 - Main course served

20.45 - Prizes presented

21.00 - Dessert & tea/coffee served

21.30 - Event concludes

Young Professionals Program Affinity Group



ALEX PRICE
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I had the privilege of attending the 2014 IEEE Section Congress held in Amsterdam, The Netherlands, August 22nd-24th 2014.

The IEEE Section Congress is held every three years with 2014 being the first time the event had been held outside of North America.

The section congress contained two days packed full of parallel sessions on all sorts of topics from an introduction to IEEE standards through to leadership soft skills.

I attended sessions predominantly related to Young Professionals and Women in Engineering affinity groups. I also walked around the exhibition area during breaks where I met with representatives from a huge array of groups within IEEE.

The Section Congress is an ideal location to develop networks and I made friends with a number of young professionals from around the globe.

One of my favourite parts of the congress was attending the IEEE Awards Ceremony. Award recipients included the creator of Matlab, inventor of the insulated gate bipolar transistor (IGBT), and the chief engineer of the Large Hadron Collider. Attending this event made

me realise the calibre of IEEE and I felt privileged knowing I was a member of an organisation which has such accomplished members.

I would encourage Queensland IEEE volunteers to attend a future IEEE Section Congress if the opportunity arises as I found it to be a very valuable experience.

I would like to thank the Queensland Section and Region 10 for supporting my attendance.



Australia and New Zealand Council Members attending SC-2014, with Alex Price 4th from left in the 3rd row

Computational Intelligence Society Chapter



DR. ANDREW LEWIS
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2nd Workshop on Computational Optimisation in the Real World

International Conference on Computational Science (ICCS2015) 1-3 June, Reykjavík, Iceland

Workshop Organisers:

Dr Andrew Lewis, Griffith University
Dr Timoleon Kipouros, Cambridge University
Dr Marcus Randall, Bond University

Session abstract: In engineering design and scientific research, computational models are often used to find the best solutions as measured against one or more objectives. There is a growing demand for tools that enable rigorous and systematic exploration of the model parameter space. In the transition from theory to practice, a variety of challenges may arise. Great care may need to be taken in problem formulation, algorithm selection and design, and in adapting methods to practical needs and available computing resources. The workshop will allow presentation of papers and an opportunity for their discussion to promote interchange of innovative ideas between participants.

This workshop invites papers discussing design and application of optimisation algorithms to real problems in computational science. In line with the theme of this years conference, emphasis is placed on nature-inspired algorithms and methods. Applications of particular interest are those that illustrate the means taken for practical application of optimisation to challenging problems: for example, problems of high dimensionality, multi- and many objectives, complex fitness landscapes and problems of a multidisciplinary nature. Also of interest are descriptions of optimisation frameworks, particularly those allowing interaction and visual analysis.

Topics for discussion include, but are not limited to:

- Optimisation theory and algorithms

- Visualisation for optimisation
- Interactive optimisation
- Real world applications
- Novel search heuristics
- Robust optimisation
- Design frameworks and optimisation
- Metamodels in engineering
- Manufacturing optimisation
- Parallel Coordinates in design optimisation
- Topology optimisation

Information for authors: Papers should be submitted through the ICCS 2015 [website](#). Please ensure that you check “Computational Optimisation in the Real World” to submit the paper to the workshop.

You should submit your paper in PDF format. The submitted paper must be camera-ready and formatted according to the rules of Procedia Computer Science. Please use the templates (Word or Latex) provided on the submission page.

Submission implies the willingness of at least one of the authors to register and present the paper. Accepted papers will be published in the ICCS 2015 Proceedings. After the Conference some papers presented at the Workshops will be considered for publication in appropriate journals.

Please note that papers must not exceed ten pages in length, when typeset using the Procedia format. Papers must be based on unpublished original work and must be submitted to ICCS only.

Important Dates:

Paper submission:	15 December, 2014
Notification of acceptance:	23 January, 2015
Camera-ready papers:	2 March, 2015
Author registration:	23 Jan - 2 Mar, 2015
Conference sessions:	1-3 June, 2015

Microwave Theory and Techniques/Antennas and Propagation Societies Chapter



DR. GREG HISLOP
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The chapter has been highly active in the past month with three events.

On October 2nd and 3rd the chapter sponsored the first annual “Workshop on Electric and Electromagnetic Measurement Methods in Civil and Environmental Engineering”.

Held at the University of Queensland and organised by Dr Alexander Scheuermann, the event attracted 53 registered participants from all the local universities as well as several universities south of the border and two registrations from Germany. Industry was also well represented with around ten company-based registrations and three from the CSIRO.

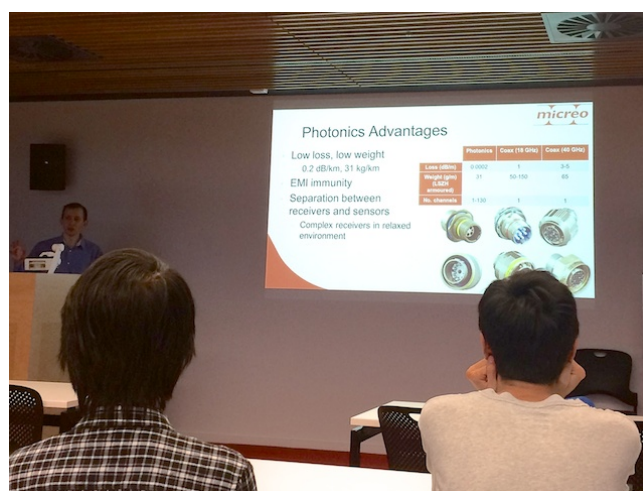
The event included a day and a half of talks on Time Domain Reflection methods, Ground Penetrating Radar, Electrical Resistivity Imaging and many other Electric and Electromagnetic Measurement techniques. The event was a huge success and is likely to be run again next year.

On October 7th Professor Amir Boag from Tel Aviv University visited Griffith University. Prof Boag spoke on the very important subject of Ultra Wide-Band Nano Antenna Arrays.

On the same day at the University of Queensland David Enchelmeier from Micro Limited (a Brisbane-based microwave and photonic design company) presented on recent advances of photonic receivers.

Your local APS/MTT joint chapter will continue to be active with our next event scheduled for November 3rd. Visiting IEEE-APS Distinguished Lecturer Dr Brian Kent from NASA will speak on “Characterization of Space Shuttle Ascent Debris Based on Radar Scattering and Ballistic Properties - Evolution of the NASA Debris Radar System”.

Dr Kent is an excellent speaker and his presentation will be of interest both to radar specialists and to the general public. Please click on this [link](#) for further details.



David Enchelmeier from Micro Limited explains the advantages of optical systems

Power and Energy & Dielectric and Electrical Insulation Societies Chapter



DR. CHANDIMA EKANAYAKE
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The PES/DEIS Chapter organised two activities during this reporting period, as presented below.

Seminar 1

Title: Requirements Engineering in Smart Grids and current direction of R&D for energy transition in Germany

Date: Thursday September 11th 2014.

Time: 15:15 - 17:00 hrs

Venue: Building 76, Room 228, The University of Queensland

No. of attendees: 46 guests, 31 IEEE members



IEEE Queensland PES/DEIS Chair Dr Chandima Ekanayake opens the seminar

Summary

A technical seminar focused on smart grids and current R&D in German energy transition (Energiewende).

Requirements Engineering in Smart Grids by Professor Sebastian Lehnhoff. How ICT engineering requirements supports roll-out of new services and the development of the Smart Grid.

Energiewende - Current Directions of R&D in Germany by Professor Christian Rehtanz. What is the current state of the Energiewende and where is still more work needed? A snapshot of current R&D initiatives in the German power systems community.

Speakers

Professor Sebastian Lehnhoff of University of Oldenburg, Germany, is a Director in the Energy Research and Development Division of the OFFIS Institute for Information Technology and a Professor for Energy Information Systems at the University of Oldenburg. He received his diploma degree in Computer Science in 2005 and his PhD in 2009 from the Technical University of Dortmund, Germany. His research interests include but are not limited to safety critical and real-time operation and services in Smart Grids focussing on distributed control.



Professor Sebastian Lehnhoff addresses the seminar

Professor Christian Rehtanz of Technical University of Dortmund, Germany, received his diploma degree in Electrical Engineering in 1994 and his Ph.D. in 1997 at the Technical University of Dortmund, Germany. From

2000 he was with ABB Corporate Research, Switzerland and from 2003 Head of Technology for the global ABB business area Power Systems. From 2005 he was Director of ABB Corporate Research in China. Since 2007 he is the head of the Institute for Energy Systems, Energy Efficiency and Energy Economics, Technical University of Dortmund, Germany. Rehtanz's research activities in the field of electrical power systems and power economics include technologies for network enhancement and congestion relief like stability assessment, wide-area monitoring, protection, and coordinated network-control as well as integration and control of distributed generation and storages.



Professor Christian Rehtanz addresses the seminar

Seminar 2

Title: A Panel Discussion on NEM - Current trends and future uncertainties

Co-sponsored by: EA Electrical and ITEE Branches, CIGRE NGN

Date: Thursday October 23rd 2014.

Time: 15:30 - 18:00 hrs

Venue: Engineering House, Upper Edward Street, Brisbane

No. of attendees: 45

Summary

Recent years have seen a consistent and unprecedented reduction in demand for electrical energy, not just in Australia but in most developed countries. As this decline in demand was largely unforeseen, it has resulted

in a large surplus in generation capacity. We anticipate the panel members will drive the discussion around uncertainty of RET, over supply of electricity generation, energy efficiency, increase in roof-top PV penetration and its impact on wholesale energy market, and optional firm access.

Panel Members

Blake Harvey - ERGON Manager Network Strategy & Policy is Queensland president of Engineers Australia. While Blake has held many roles focusing on the management of power networks, most have had a particular focus on rural power networks. He's currently responsible for Network Strategy & Policy, from solar and electric vehicles to batteries and advanced network modelling. Blake describes his job as "taking a power network designed 100 years ago, built 50 years ago and making it relevant today and for the next 50 years."

Thomas Dargue - AEMO is the Acting Manager of Supply Forecasting with the Australian Energy Market Operator. He has previously held roles in market analysis and risk with Queensland generators and in retail. He has more than a decade of experience in working in industry. The Supply Forecasting team with AEMO is responsible for the delivery of some of the key planning documents including the Electricity Statement of Opportunity, Gas Statement of Opportunity as well as market modelling.

Shantha Ranatunga - AEMO has a background in Electrical Engineering and Power System Economics. He has been involved in research and development on electricity markets in Australia and NZ for 20 years, which led to his Master of Electrical Engineering from University of NSW, Sydney and a PhD from the University of Auckland, New Zealand. Shantha has worked in Transpower NZ Ltd, in various roles related to Power System and Market operations. Shantha joined AEMO (then NEMMCO) in 2005, and performed in variety of roles related to market operations, performance and development. He is currently attached to the Systems Capability group.

Dr Joel Gilmore - EY is a Senior Manager at EY, where he provides advice to industry and government

on transitioning Australia to a low emissions future. He has worked on diverse projects in the energy sector, including wind and solar integration studies and market design for robust electricity systems. He is an active member of CIGRE Australia, participating in working groups on the co-optimisation of transmission and generation, and design options for capacity markets. Joel was previously Principal Renewable Energy & Climate Policy at ROAM Consulting, which was acquired by EY in 2014.



Panel members

Power and Energy Society Outstanding Engineer Award

The IEEE Queensland Power and Energy Society chapter established the ‘Outstanding Engineer’ award in 2010, which is aimed to recognize outstanding technical, professional and society contribution on behalf of the power and energy profession. This award has been given each year starting from 2010. A special plaque for the “IEEE Power and Energy Society of Queensland Outstanding Engineer Award” is presented to the recipient by the chair of the IEEE Queensland Power and Energy Society/Dielectric and Electrical Insulation Society chapter.

The IEEE Queensland Power and Energy Society/Dielectric and Electrical Insulation Society Chapter is now calling for nominations for the Outstanding Engineer Award for 2014. The deadline for nomination submissions is November 30th 2014.

The award rules are available [here](#).

The nomination form can be downloaded from [here](#).

The award plaque can be viewed [here](#).

Signal Processing and Communication Societies Chapter



DR. GARRY EINICKE
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IEEE Signal Processing Distinguished Lecture Signal Processing for Structural Health Monitoring

by

Dr V. John Mathews

10am Friday October 24th 2014, Room 78-224, University of Queensland

Abstract

Modern airplanes contain substantial amounts of load-bearing composite parts. Composite materials used in aerospace applications are typically light and strong, but are susceptible to internal damages with little or no external evidence. Consequently it is desirable to develop and implement health monitoring systems on composite aerospace structures that continuously monitor the structure for events that may result in damage, and when such events occur, detect and assess the extent of any damage that may have resulted.

Such systems can increase the reliability of aircrafts by ensuring their flightworthiness and detecting potential problems as they arise. They will facilitate lean designs that meet tolerance levels specified by barely detectable damages. By avoiding excess conservatism, the system will reduce manufacturing and maintenance costs.

Another attractive aspect of these systems is their ability to monitor parts and locations of aircrafts that are not easily accessible and require disassembling for inspection.

In this talk, we will review structural health monitoring techniques that utilize an array of ultrasound transducers on the structure. We will discuss the basic approaches for detecting damage and determining the extent of damage in the structure through a combination of passive and active approaches, and practical

challenges in the implementation of such systems. Part of this talk is based on work done for the Boeing Company.

Short Biography

Dr. V. John Mathews is a Professor of Electrical and Computer Engineering at the University of Utah. His research interests are in nonlinear and adaptive signal processing and application of signal processing techniques in audio and communication systems, biomedical engineering, and structural health management. He chaired the department of Electrical and Computer Engineering at the University of Utah during 1999-2003.

Dr. Mathews is a Fellow of IEEE. He served as the Vice President (Finance) of the IEEE Signal Processing Society during 2003-2005 and the Vice President (Conferences) of the Society during 2009-2011. He is a past associate editor of the IEEE Transactions on Signal Processing, and the IEEE Signal Processing Letters and the IEEE Journal of Selected Topics in Signal Processing and currently serves on the editorial board of the IEEE Signal Processing Magazine.

He was a recipient of the 2008-09 Distinguished Alumnus Award from the National Institute of Technology, Tiruchirappalli, India, and the Utah Engineers Council's Engineer of the Year Award in 2011. He serves now as a Distinguished Lecturer of the IEEE Signal Processing Society for 2013 and 2014.

Australian Energy Market Operator site visit



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The IEEE Queensland Section organised a site visit to the Australian Energy Market Operator (AEMO) control centre in Brisbane on October 15th 2014.

This successful event attracted 20 professional and student members. Visitors were in one group and there was a 40-minute presentation and a 30-minute control room visit.

During the presentation, two AEMO presenters, Paul Ryan, Senior Manager, NEM RTO and Tjaart Van Der Walt, Manager, Operational Forecasting, gave a brief overview of the National Electricity Market (NEM), responsibilities of AEMO control centres and a detailed

demonstration of the tools that are used to manage and forecast the regional loads.

Presenters interacted with attendees and answered many of their interesting questions. Then the attendees got introduced to the whole NEM power network in the main control room and gained understanding of how AEMO supports the industry to deliver a more integrated, secure, and cost-effective energy supply.

AEMO celebrated its 5th anniversary on July 1st 2014. Miss Hanxiao Zhang from The University of Queensland volunteered to facilitate the transportation.



IEEE Queensland Section members visit the AEMO control room

IEEE Day Tuesday, October 7th 2014



ASSOCIATE PROFESSOR VAUGHAN CLARKSON
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Special Meeting of the First Tuesday Journal-Paper Club

The IEEE Day tradition is now in its 5th year world-wide. It celebrates the anniversary of the first time IEEE members gathered to share their technical ideas in 1884. Its also an opportunity to reflect on the contributions made by IEEE and its members over the years.

Continuing a local tradition started last year, we celebrated at the pub. We held a special IEEE Day meeting of the First Tuesday Journal-Paper Club, an initiative of the Queensland Signal Processing and Communications Chapter.

To cater for a wider audience, we chose a paper outside of the Chapter's usual focus. The paper we discussed was from the Journal of Documentation, titled 'Should top universities be led by top researchers and are they?' by Amanda Goodall. Professor Andrew Bradley led the discussion and lively debate ensued.

Just some of the questions considered were: "What

do the different university ranking schemes actually measure?", "Does the Nobel Prize committee - whose decisions greatly affect the rankings - always pick deserving winners?", "Are the top 20 universities really good models for the rest of us?" and "When are we moving on to dinner?"

It was only a small group, eight in total, but it was a good opportunity to socialise with colleagues and meet new people. It was a fun night.

The meeting was modestly subsidised by IEEE Queensland Section so, on behalf of all who attended, I express my thanks.

Look out for more meetings of the journal-paper club. It will be back next month. First rule of the journal-paper club: tell everyone about the journal-paper club.



L to R: Kalum Udage, Vaughan Clarkson, Andrew Bradley, Kimberley Nunes, Sam Hames, Mike Robinson, Garry Einicke. Photo: Dhammika Jayalath.



L to R: Vaughan Clarkson, Mike Robinson, Garry Einicke, Sam Hames, Dhammika Jayalath, Kalum Udage, Andrew Bradley. Photo: Kimberley Nunes.

The past, present and future



JAN MCSWEENEY
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So seriously, why aren't there more women in science - to borrow a turn of phrase from theconversation.com.

This IEEE Queensland Section newsletter article is about conversations, engineering conversations - the public, private and oral. The reason it begins with women is because it's about history, but not, in this instance, his/story, instead stories that are in part, outside of the box. The purpose of this article is to begin a conversation that maps the inter-relationship between men, women, children and science. Its aim is to encourage IEEE-Q members to explore, investigate, re-circulate and participate in building the many facets of this all-inclusive, ongoing conversation.

So given we have Creative Commons licence to do so, let's return briefly to the story in theconversation.com on August 24th 2011, with Cathy Foley (CSIRO): Chief of material science and engineering division responding to questions, including:

Why is having fewer women than men in science a problem?

This is a recipe for disaster. Women make up half the population, so we're losing half of the brightest people to solve the world's major problems.

We're chopping ourselves off at the knees as a society if we're not embracing our full human potential.

Also, the best work is done when teams are diverse. A lot of research coming out now says you'll get better results if you have teams with different genders, different personality types, different racial backgrounds, indigenous, and people with disabilities.

They all bring a different perspective and a different way of problem solving - you don't get the "group

think".

Resurfacing the stories of the female Queensland trailblazers who were in action and confronting a strong oppositional "group think" brings the Brisbane landscape to life. It shares the creation of stepping stones that enabled significant scientific developmental progress.

Unsung heroines, professionals and non-professionals, stepped up to the plate, paving the way for others. An all-inclusive gender topic commencing with a focus on women can seem like a political agenda but is actually an exploration in time, enabling tangential pursuits. So, let's turn back time to -

1955 and Deidre Mary Vance becomes the first female in Queensland to be awarded a Bachelor of Engineering - Civil. It was awarded by The University of Queensland. Deidre and her award were exceptional.

It is now post-war years, and while women were benefitting from the shortage of labour, they were restricted from working in many professions, including teaching and nursing. Accordingly, women generally did not seek out education. The 1949-50 Basic Wage Case had only increased the female basic wage from 54 per cent to 75 per cent of the male basic wage, and in the face of opposition. Women's restriction in the workplace is demonstrated by the statistics of female employment in the Commonwealth Public Service. In the 1960s, 92 per cent of women were employed in clerical roles in the fourth division, and the remaining women in the third; and until 1966, the marriage bar remained in place in the federal public service and all other states.

Then, in 1979 the *Convention on the Elimination of All Forms of Discrimination against Women (CEDAW)* was adopted by the UN General Assembly and entered

into force on September 3rd 1981. Australia signed CEDAW on August 17th 1983. During this period, women began seeking out education and entering the professions in greater numbers.

CEDAW is based on the belief that basic human rights include the true equality of men and women. Children also have reaped the rewards, and are now able to gain access to quality educational opportunities, such as The University of Queensland Institute of Bio-Engineering and Nanotechnology student placements.

Four high school students from the 'Queensland Academies Science Mathematics and Technology Campus' (Mehroz Jeevaji, Shoanly Tobin, Isabella Jura and Alexandra Crawley) recently secured a four-day placement. Isabella summarised her experience as follows: *'Taking part in the research placement program at UQ's AIBN was by far one of the most incredible and interesting experiences I've ever had. It definitely blew my mind to hear of all the research groups' exciting work and endless applications of bioengineering and nanotechnology from cancer cell detection to water treatment. I was privileged to work alongside a chemist focusing on nanomaterials, and throughout the four days I was tasked with the challenge to synthesise the most monodisperse (uniformly sized) nanospheres possible....'*

So seriously, it seems more young women are entering science. And large numbers of children, from secondary and primary school, race to participate in the Young ICT Explorer's Event and competitively showcase their ICT projects. The indebtedness of men, women and children to their foremothers who were active in science is addressed in some instances of Queensland school curricula, with recognition given to -

* Lilian Cooper - Queensland's first female doctor and Founder of Mount Olivet

When WW1 broke out, Lilian offered to help the Australian Army but her offer was rejected. Lilian then volunteered to join the Scottish Women's Hospital Service who were helping people on the front line in France and Serbia. Lilian received the Order of St Sava from

the Serbian King for her wartime efforts. Following her eventual death in Brisbane, the land that her house is on at Kangaroo Point was donated to charity so that it could become a hospice for the elderly and dying. It is now Mount Olivet Hospital.

* Mary McConnel - Founder of The Royal Children's Hospital, Herston.

Mary and her husband lived on a station in the Moreton Bay area. Following the death of her infant son, who was denied approval to be with her in adult hospital, Mary worked for 15 years then personally sought out two professional staff, and rented a little house in Spring Hill which became the Hospital for Sick Children in 1878. The hospital eventually moved to a two-storey building in Herston and ultimately became the Royal Children's Hospital Brisbane.

* Irene Longman - Queensland's first female parliamentarian - seat of Bulimba (instrumental in securing the appointment of the first women police in Queensland and a separate Children's Court)

Irene was a school teacher with two brothers in parliament. When Irene ran for office, her male opponent did not believe Irene could win and did not try to win over the people in the electorate. Irene won the seat of Bulimba in 1929. She was instrumental in securing the appointment of the first women police in Queensland and a separate Children's Court. Although a parliamentarian, Irene never got to eat in the members' dining room but had to sit outside on the verandah. During her time, there were no female toilets in parliament.

Mount Olivet, The Royal Children's Hospital, The Children's Court and/or Queensland police women form part of our Brisbane life experience and consciousness and were created by individual female Queenslanders. Their stories and others are available [here](#).

And over the next few IEEE-Q issues, the stories of unsung heroines and heroes will be drawn from IEEE publications and the ICT landscape. Stories belonging to Deidrie Mary Vance, Amazing Grace, et al.

2014 IEEE Queensland Section Office Holders

Office	Office holder	Contact
Section Officers		
Section Chair	Tapan Saha	saha@itee.uq.edu.au
Vice-chair	Daniel Eghbal	m.eghbal@ieee.org
Secretary	Rahul Sharma	rahul.sharma@uq.edu.au
Treasurer	Ruifeng (Richard) Yan	r.yan@uq.edu.au
Immediate Past Chair	Abbas Bigdeli	abbas.bigdeli@ieee.org
Newsletter Editor	Michael Swinton (January)	
Acting Newsletter Editor	Mike Robinson (August)	blackmagic@computer.org
Webmaster	Mike Robinson	blackmagic@computer.org
Professional Activities	Olav Krause (June)	o.krause@uq.edu.au
Membership Development Chair	Nilesh Modi	n.modi@ieee.org
Awards and Recognition	Mike Robinson	blackmagic@computer.org
Student Activities Chair	Jack Gaynor	jack.e.gaynor@gmail.com
Educational Activities Chair	Hugo Espinosa (September)	h.espinosa@griffith.edu.au
Engineers Australia Liaison	Tapan Saha	saha@itee.uq.edu.au
Teacher in Service Program	Mike Robinson	blackmagic@computer.org
Chapter Officers		
Aerospace and Electronic Systems Society Chapter		
Chair	Steve Ashfield	steve.ashfield@NovaSystems.com
Vice-chair	John Davies	jdavies@parallaxprojects.com
Secretary	Robert Kennedy	Robert.Kennedy@ausaero.com
Computational Intelligence Society Chapter		
Chair	Andrew Lewis	a.lewis@griffith.edu.au
Computer Society Chapter		
Chair	Brian Lovell	lovell@itee.uq.edu.au
Vice-chair	Andrew West	andrew.west@ieee.org
Secretary	Mike Robinson	blackmagic@computer.org
Control Systems Society		
Robotics and Automation Society Joint Chapter		
Chair	Michael Kearney	m.kearney@uq.edu.au
Vice-chair	John Billingsley	billings@usq.edu.au
Secretary	Frederic Maire (April)	f.maire@qut.edu.au
Engineering in Medicine and Biology Society Chapter		
Chair	Steve Wilson	s.wilson@uq.edu.au
Vice-chair	Mohan Karunanithi	Mohan.Karunanithi@csiro.au
Secretary	Qing Zhang	Qing.Zhang@csiro.au

Office	Office holder	Contact
Microwave Theory & Techniques Society		
Antennas & Propagation Society Joint Chapter		
Chair	Konstanty Bialkowski	konstanty@ieee.org
Vice-chair	Greg Hislop	greg.hislop@csiro.au
Secretary	Morteza Shahpari	morteza.shahpari@ieee.org
Power & Energy Society		
Dielectrics and Electrical Insulation Society Joint Chapter		
Chair	Chandima Ekanayake	chandima@itee.uq.edu.au
Vice-chair	Yateendra Mishra	yateendra.mishra@qut.edu.au
Secretary	Jose Lopez Roldan	jlopezro@powerlink.com.au
Student representative	Medhi Mosadeghy	
Signal Processing Society		
Communications Society Joint Chapter		
Chair	Garry Einicke (March)	Garry.Einicke@csiro.au
Vice-chair	Vaughan Clarkson	v.clarkson@uq.edu.au
Secretary	Dharmika Jayalath	dhammika.jayalath@qut.edu.au
Women in Engineering Chapter		
Chair	Alexandra Price	a.price@ieee.org
Vice-chair	Angela Tuffley	angela.tuffley@gmail.com
Secretary	Mary Tom	m.tom@cqu.edu.au
Young Professionals Program Chapter		
Chair	Alexandra Price	a.price@ieee.org
Vice-chair	Prachi Redey	prachiredey@gmail.com
Secretary	Matthew Zillman	matthew.zillman@gmail.com
Student Counsellors		
Central Queensland University - Brisbane Campus	Mary Tom	m.tom@cqu.edu.au
Central Queensland University - Rockhampton Campus	Edward Palmer (July)	e.palmer@cqu.edu.au
Griffith University - Gold Coast Campus	Jahangir Hossain (March)	j.hossain@griffith.edu.au
Griffith University - Nathan Campus	Sascha Stegen	s.stegen@griffith.edu.au
Queensland University of Technology	Seyit Camtepe (June)	seyit.camtepe@qut.edu.au
The University of Queensland	Vaughan Clarkson	v.clarkson@uq.edu.au
The University of Queensland (Power & Energy Society)	Tapan Saha	saha@itee.uq.edu.au
University of Southern Queensland	Paul Wen (March)	peng.wen@usq.edu.au
Student Branches		
Central Queensland University - Brisbane Campus		
Chair	Martin Diaz	m.diaz@cqumail.com
Vice-chair	Julie Shteinikova	iuliia.shteinikova@cqumail.com
Secretary	Arash Daneshvar	daneshvar.arash@cqumail.com
Treasurer	Andrew Muller	andrew.muller@cqumail.com

Office	Office holder	Contact
The University of Queensland		
Chair	Jack McKinnon	jack.mckinnon@uqconnect.edu.au
Vice-chair	Andrew Lai	andrew.lai1@uqconnect.edu.au
Secretary	Laura Benn	laura.benn@uqconnect.edu.au
Treasurer	Seb Forsyth	sebastian.forsyth@uqconnect.edu.au
The University of Queensland (Power & Energy Society)		
Chair	Mehdi Mosadeghy	m.mosadeghy@uq.edu.au
Vice-chair	Nadali Mahmoudi	n.mahmoudi@uq.edu.au

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 section's [website](#).

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 November 7th 2014.

The following pages include 'call for nomination' letters for the 2015 IEEE Queensland Section elections. Please read the letters and consider nominating for any positions that you may be eligible for.

2015 Call For Nominations Officers and Members for the Executive Committee of the IEEE Queensland Section

PROF. NEIL BERGMANN
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 November 7th 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 December 3rd, at Sir Llew Edwards Building - Terrace Room, The University of Queensland.

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

**2015 Call For Nominations
Chapter Officers for the
IEEE Queensland Section's
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 November 7th 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,

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
IEEE Queensland Section's
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 November 7th 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
IEEE Queensland Section's
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 November 7th 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
IEEE Queensland Section's
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 November 7th 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
IEEE Queensland Section's
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 November 7th 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
IEEE Queensland Section's
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 November 7th 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
IEEE Queensland Section's
Power & Energy and Dielectrics & Electrical Insulation Societies Chapter**

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

Dear members,

The Queensland Power & Energy and Dielectrics & Electrical Insulation 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 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 November 7th 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 & Energy and Dielectrics & Electrical Insulation Societies Chapter Nominating Committee for 2015

Email: saha@itee.uq.edu.au

**2015 Call For Nominations
Chapter Officers for the
IEEE Queensland Section's
Signal Processing and Communications Societies Chapter**

DR BOUCHRA SENADJI
b.senadji@qut.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 November 7th 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,

Bouchra Senadji

Chair, IEEE Queensland Section Signal Processing and Communications Societies Chapter Nominating Committee for 2015

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**2015 Call For Nominations
Chapter Officers for the
IEEE Queensland Section's
Young Professionals Program Affinity Group**

DR. DAMIEN DUSHA
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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 November 7th 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,

Damien Dusha

Chair, IEEE Queensland Section Young Professionals Program Affinity Group Nominating Committee 2015

Email: d.dusha@gmail.com

**2015 Call For Nominations
Chapter Officers for the
IEEE Queensland Section's
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 November 7th 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 2015

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