Editorial

Welcome to the November edition of Circuit. It’s been another eventful quarter for the IEEE NSW Section including hosting of the IEEE 125th Anniversary dinner, which was a great success.

We have already begun compiling events for the 2010 calendar and a preliminary outline of some of those events can be found on page 8 of the Newsletter. If you, or someone you know, are interested in presenting on a topic which you believe is of interest to members, please get in touch as we’d love to hear from you.

The 2009 IEEE NSW Section combined AGM and dinner will be held at the Sydney Hilton Hotel on 27 November 2009. The dinner is always a lot of fun and provides an excellent environment to network and generally be involved with the Section. Further details can be found in Section 2.1 of the Newsletter.

Finally, a reminder that your 2010 IEEE membership is now up for renewal. Renewal can be carried out online at: http://www.ieee.org/web/membership/renew/index.html.

1. Message from the Chair

Time flies. A year has almost passed and the 2009 AGM is fast approaching. Since taking over the Chairmanship of the IEEE NSW Section, I have been working to build a platform for academics, engineers, government agencies, diplomatic missions and members of industry to meet, exchange ideas, and establish professional networks. As part of this process, the traditional AGM dinner is this year being merged with “NETWORK 2009”. I welcome you all to join us for this new and very worthwhile event.

MOU Signing – Sister Relationship between IEEE NSW and IEEE Russian Siberian Section

To encourage the exchange and dissemination of technical information between electrical engineers in NSW and our Russian-Siberian colleagues (and in turn promote understanding and cooperation between the respective members), a MOU and Sister Relationship Agreement between the two sections was signed on Monday, 14 September 2009 in Vladivostok, Russian Federation. The agreement was signed by myself and Associate Professor Alexander Gridchin.

Mark O’Mally mark.omally@ieee.org
Editor, Circuit Newsletter, NSW Section

All renewals received prior to 15 November 2009 will be entered into a draw to win one of three laptop computers.
MOU signing between Dr David Tien, Chairman of IEEE NSW, and Associate Professor Alexander Gridchin, Vice-Chairman of IEEE Russian Siberian Section.

There are many similarities between the Russian Far East and Australia. Notably, Vladivostok and NSW share the same time zone and both Australia and the Russian Far East have a strong European tradition.

The initiative to cement a partnership between IEEE NSW and IEEE Russian Far East has received support from the Australian Ambassador to the Russian Federation, Ms Margaret Twomey, who was touring Vladivostok during the time of MOU signing, and from Consul-General of the Russian Federation in Sydney, Dr. Tatiana M. Grushko. Two Professors from the Russian Academy of Sciences will visit Australia this month and attend our NETWORK 2009.

Industry and Government Liaison Committee

To further the relationship between IEEE NSW and industry, a number of people from industry and the Government Liaison Committee have been working to establish closer ties between academic, government and key industries. Some Chapters have received sponsorships from industry to carry out activities in the areas of R&D, event management and joint grant applications. Some of the Chapters have also received funds to subsidise their members to attend NETWORK 2009.

ARC Linkage Liaison Committee

After the establishment of the ARC Linkage Liaison Committee, several ARC (the Australian Research Council) relationships have been established between universities and industry which have enabled university researchers to get initial cash injections from industry and government. A number of ARC Linkage applications will also be submitted in the next few weeks.

Student Job Service

Student Job Service is being set up to match industry demand with the requests of our university graduates. The Committee will be contacted by government and industry Human Resources Departments who do the regular recruitment. The job vacancies will then be sent to our IEEE student members in NSW.

I look forward to seeing you all on the 27th of November.

David Tien dtien@csu.edu.au
Chair, NSW Section

2. News in Brief

2.1 NSW IEEE AGM and Dinner

This year, we are hosting the NSW Section Annual General Meeting (AGM) at the Sydney Hilton Hotel, 488 George Street, Sydney, NSW 2000 on 27 November 2009. The AGM commences at 7pm sharp.

The combined Annual Dinner and “Network 2009” will follow after the conclusion of the NSW Section AGM, at 8pm. The cost of the dinner is $25 per person inclusive of drinks.

A reservation form can be found on page 9 of the Newsletter. If you would like to attend the combined Annual Dinner and Network 2009, please complete and submit the form by 18 November 2009.
Prior to the NSW Section AGM, Chapters will conduct their AGMs to elect new office bearers from 6pm. All Chapter Chairs will conclude their meetings by 7 pm in readiness for the AGM.

Proposed Agenda - NSW Section AGM 2009

1. Attendance and Apologies
2. Minutes of 2008 AGM
3. Business arising
4. Section Chair Report
5. Section Treasurer Report
6. Chapter Reports
7. 2010 Section Committee
8. Other General Businesses

2.2 First Inaugural UNSW Postgraduate Poster Competition

IEEE UNSW Student Branch held its first postgraduate poster competition in early August, which I am pleased to report was well attended by students, academics and representatives from industry. The objective of the poster competition was to provide postgraduate students with the opportunity to present their research or projects to get feedback from a panel of judges and to interact with related industries and research organizations.

In total 34 submissions were received across six categories, each with a $300 industry sponsored cash prize. Here are the 2009 winners:

**Cochlear prize for "Improving quality of life":**
Winner: Johnson Chung
Poster Title: Polyurethane Nanocomposites using Dexamethasone as potential drug delivery systems: sustained release and structural interactions

**Microsoft prize for “Energy & Green Environment”:**
Winner: Pasquale Aliberti
Poster Title: Study of Silicon Quantum Dots in a SiO2 Matrix for Energy Selective Contacts Applications

**NICTA prize for "Fast, reliable & secure":**
Winner: Mark Hiscocks
Poster Title: Diamond Etching at UNSW: Towards Secure Communication Technologies

**Optus prize for "Towards miniaturization":**
Winner: Jarryd James Pla
Poster Title: Towards a quantum computer: Single shot read-out of an electron spin in silicon

**Canon prize for "Connecting & Entertaining the world":**
Winner: Adeel Razi
Poster Title: Sum Rates and User Scheduling for Multi-User MIMO Vector Perturbation Pre-coding

**CSIRO prize for "Automation & Adaptation":**
Winner: Gilbert Foo
Poster Title: Direct torque control of an IPM synchronous motor drive at very low speed using a sliding mode stator flux observer

The event was closely supported by the School of Electrical Engineering and Telecommunications (EET) in UNSW. Aside from the industry prizes, the event was sponsored by IEEE NSW Section and UNSW Schools of EET, CSE, Surveying, Photovoltaics, Mechanical and Biomedical Engineering. The event was later on awarded with the “Innovation Grant” from ARC, which is UNSW’s Clubs Association. For more information and photos from the 2009 poster competition please visit the iToF website http://www.ieee.unsw.edu.au/~ieee/itof.html

The group has already started planning for 2010 and is seeking sponsorship from industry and research organizations. If you would like to be one of our 2010 proud sponsors please do not hesitate to contact us on ieee@cse.unsw.edu.au.

Sara Hakami sara.hakami@ieee.org
UNSW Student Branch
2.3 IEEE History and Heritage

Each IEEE Section, as well as any individuals endowed with historical knowledge of the IEEE, has been invited to contribute to the new IEEE Global History Network website. This is a Wiki based website that is being used as a repository for all things historical around both IEEE and technology. It differentiates from the popular Wikipedia, in that the content is intended for technologists, and material that has historical significance. You are all kindly invited to have a look (simply Google search “IEEE GHN”), and of course you are invited to contribute. For those that want a historical challenge, pick an IEEE Section somewhere in the world and do some research on it! There are many Sections that have no entries, and even if you can contribute just a line of information, it would be well received. Did you know that there are NO historical documents for the whole of the 1990’s from IEEE New South Wales! If you can assist with that old box of documents in the shed, please get in touch with me.

David Burger k3hz@ieee.org
Immediate Past Chair, NSW Section Historian

2.4 IEEE NSW link to Nobel Prize Winner

One of the co-winners of the 2009 Nobel Prize in Physics, Charles K. Kao, in the early 1960’s was working at Standard Telephone Laboratory (STL) in England. At that time his mentor and PhD supervisor was Antoni (Toni) E. Karbowiak, who was then in charge of telecommunication research at STL and who encouraged him to pursue research into optical communications, for which Charles Kao has now been awarded the Nobel Prize. Toni Karbowiak in 1964 took up the Chair in Communications in the School of Electrical Engineering at the University of NSW and became one of the pioneers in optical communications research in Australia. Toni Karbowiak is currently the longest serving IEEE member in NSW.

Ramutis Zakarevicius ramzak@bigpond.com
Chair, Awards & Recognition

2.5 Life Members

Now is the time to renew your IEEE life membership. You think I am crazy? Well no, because the procedure requiring annual renewal was implemented a couple of years ago because Head Office did a survey and found many members around the world had not taken steps to ensure their local Section were not aware of their passing. The default condition is that if we do not renew annually our names are removed from the database. Therefore, please renew as soon as possible – if you do so before 15 November 2009 your name will be put into draw for a useful prize.

The dinner following the AGM this month will be free to those life members who contact me before 22 November with their name and partner’s details. If you don’t show up at the function you will be billed for the event. As in the past we have had no shows with any reasonable excuse received.

John L Robinson jl.robinson@ieee.org
Chair, Life Members Affinity Group

2.6 Free Student Membership

I am pleased to report that the IEEE NSW Section will be awarding 200 free student memberships in 2010. A flyer will be circulated shortly providing further details. In the meantime, feel free to contact me to find out more (e-mail: a.hellany@uws.edu.au or mail: School of Engineering, Locked Bag 1797, Penrith South DC, NSW, 1797).

Dr Ali Hellany a.hellany@uws.edu.au
Chair, Student Activities

2.7 Bits and Pieces

Congratulations to Sara Hakami who has been recently been selected as a finalist for the 2009 Australian and New Zealand Anita Borg Memorial Scholarship. Well done Sara!

2.8 Welcome to our New and Upgraded Members

From June to September 2009, we have the following new and upgraded members:

Senior Member Grade
Alistair McEwan
Tanveer A Zia
2.9 Welcome to our New and Upgrade Members (cont.)

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<td>Wai King Yong</td>
<td>William Tyree</td>
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2.9 Welcome to our New and Upgraded Members (cont.)

**Associate Grade**
Andrew Keith Noble  
Narinder Chhabra  
Lee D Walsh  
Cibby B Pulikkaseril  
Sahan H Wimalasiri  
Joshua P Toomey  
Corey Jon Tobin  
Song Gao  
Russell Joseph Gentle  
David Sparks  
Lars Narushevich  
Matin Katebi  
Phillip Maher  
Rafal Fijolek

**Grad. Student Member (cont.)**
Xianggao Kong  
Safrajal M Jamil  
Appu George  
Matthew Field  
Haseeb Raza  
Artem Parakhine  
Sampath Ns  
Meghan Gunst

**Student Member**
Damien Kearns  
Kumararan Nathan  
Nallanathan Harendraharan  
Xingyu ZHANG  
Christopher Kerr  
Fahd Ayyalil Mohiyaddin  
Gavin Steacy  
michelle maree platcher  
Andrew Obst  
Chris Druitt  
Jhansri Rani Rao  
Li Jin  
Yana Thrasyvoulou  
Don Truong  
Ying Chuen Ho  
Simon Chow  
Aleksandra Daniel  
Ifeanyichukwu J Ahaotu  
P PHILIPS  
Victor Lui  
Yasser Alsaadi  
ZHI LI  
Cliff Harris  
Joel Lim  
luke long  
Hao Ye  
Anthony Fowler  
Nelson Billung  
Hendi Astono  
Matthew Sheridan  
Worapan Kusakunniran  
Joy Deluxon Thiraviarajah  
Robert Malcolm Dunn  
Timothy Wong  
Denis Kaynara  
Jeffrey John O’Neill  
Jason Fui-Kok Wong  
Andrew Vieyra  
Anthony To  
Tolga Turegun  
Andrew Wegrzynowski  
Duncan McNab  
Peter Lanzonski  
Benjamin Wang  
Adrian Dennis Lee  
Aaron Crosley

**Grad. Student Member**

**Student Member (Cont.)**
Bennett John McCorkell  
Henra Sung  
Alireza Zonnoorian  
Syed Sameed Wahid  
James Woon  
Liam Thomas  
Stephen Kerr  
kaushik Kundu  
Liam Thomas  
Christopher Doyle  
Paul McNamee  
Rui Melo  
Terry Chien-Jen Yang  
Beau Wilde  
Rattiporn Luanrattana  
Yuxin Tan  
Bao Tran  
Thomas E Peters  
Ian Commerford  
Tony Mann  
Nick Zhu  
Mohammed Hasan  
Ronan McElhinney  
Colin Fong  
Meng Xu  
Alonzo Daniel Sparkes  
Kyle Seton  
Dean Illfeld  
Dominic Miles Kitching  
Craig Jones

**Associate Member**
Narinder Chhabra  
Lee D Walsh  
Cibby B Pulikkaseril  
Sahan H Wimalasiri  
Joshua P Toomey  
Corey Jon Tobin  
Song Gao  
Russell Joseph Gentle  
David Sparks  
Lars Narushevich  
Matin Katebi  
Phillip Maher  
Rafal Fijolek  
Andrew Keith Noble

**Affiliate**
Un-Seng Halim  
John Bennett  
Boualem Benatallah  
Ian Bowditch  
David Bryan  
Dianne Castillo  
Alex Nedoboi  
Rene Hugentobler  
Nicholas Goodspeed

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3. Chapter News

3.1 Joint OCEANS/Signal Processing and Communications Chapter

The Conference web site in now functioning at [http://www.oceans10ieeesydney.org/](http://www.oceans10ieeesydney.org/). Early bird registration is open now. Drop me a line at jl.robinson@ieee.org if you are interested in attending this Conference.

3.2 Antenna & Propagation/ Microwave Theory & Techniques Chapter

On 19 October 2009, Professor Manos M. Tentzeris from the Georgia Institute of Technology, Atlanta, USA, delivered an excellent lecture entitled “Inkjet-Printed paper/polymer-based RFID and Wireless Sensor Nodes: The Final Step to Cognitive Intelligence?”: The lecture was held at Macquarie University and was jointly organised with the IEEE Student Branch.
Professor Tentzeris addressed a wide range of issues related to RFID, wireless sensor networks, low-cost microwave packaging and ultra-wideband antennas. The focus was on the development of extremely low-cost multi-functional sensor nodes through innovative microwave technologies, while exploiting the advances in other fields including material science (e.g. conductive inks, carbon nanotubes, polymers), battery technologies (e.g. thin-film batteries) and energy scavenging. The meeting was well attended partially due to direct trains now running from the city to Macquarie University.

Karu Esselle esselle@ics.mq.edu.au
Chair, AP-MTT Chapter

3.3 Power & Energy Chapter

Prof Saifur Rahman’s visit to Sydney was a huge success with over 100 members attending his two hour tutorial on Renewable Energy and one hour lecture on Smart Grids. The event was held at Energy Australia’s George Street Auditorium on 24 August.

Finally we have over 140 members in the New South Wales Section and we hope to receive some applications to join the local Chapter Committee. We have already invited Prof Vassilios Agelidis to nominate as Chair for 2010/2011. He attended the Region 10 Chapter Chairs’ meeting in Kuala Lumpur at the end of October. All our P & E Society members are eligible to nominate themselves for any position in the local Chapter management. Your application should be directed to Dr Graeme Gwilliam by email to gb.gwilliam@ieee.org, preferably before the Annual General Meeting to be held at the Sydney Hilton on Friday 27 November.

Finally I sincerely hope all our members voted in the election of PES officers for the 2010-1011 terms. Electronic ballots had to be received at IEEE no later than 2 November 2009 USA Eastern Standard time. Because of the time difference we could vote early morning on 3 November 2009.

I look forward to members coming along to the AGM on 27th November at the Hilton Hotel in the CBD but please use public transport. I recently attended the EESA Conference at the Power House Museum using public transport but made the mistake of using my car in the evening to attend the Gala Dinner at the Star Room, Darling Harbour. I dropped off my wife Olivia at 6:30pm and it took over half an hour to park in Sussex Street only a short walk from Wheat Road, because of the traffic jams in the CBD!

John L Robinson jl.robinson@ieee.org
Chair, Power & Energy Chapter
4. Technical Meetings & Conferences

All members are cordially invited to attend these joint lectures with the Engineers Australia (EA), IEEE and IET. These joint lectures will be held at 6.00 pm (with light refreshments from 5:30pm) at the EA, 8 Thomas Street, Chatswood, NSW, unless otherwise stated.

All members should check the latest updates of the Meetings & Conferences a couple of days prior to the actual date at the IEEE NSW News bulletins at: http://www.google.com/calendar/embed?src=k3hz%40ieee.org&ctz=Australia/Sydney and also the EA at http://www.engineersaustralia.org.au/events/events_home.cfm to prevent any potential disappointment due to last minute changes.

<table>
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<tr>
<th>Date (2009)</th>
<th>Event/Meeting/Conference</th>
<th>Speaker</th>
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<tr>
<td>12 November</td>
<td>Wind Measurements</td>
<td>Dale Hughes, CSIRO</td>
<td>EA</td>
<td>Kim Yan</td>
<td>Electronic Flyer to be distributed providing more information</td>
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<td>26 November</td>
<td>Electric Vehicles</td>
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<td>EA</td>
<td>Raymond Pau</td>
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<td>2 December</td>
<td>CPD and Career Advancement</td>
<td>Simon Bartlett, CEO of Power Link QLD</td>
<td>EA</td>
<td>Amal Hanna</td>
<td>EA Auditorium</td>
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<td>10 December</td>
<td>Multicasting for Internet Broadcasts</td>
<td>Kim Chin, Australian Catholic University</td>
<td>IEEE</td>
<td>Eddie Fong</td>
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<th>Date (2010)</th>
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<td>Electric Vehicles (Part 2)</td>
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<td>25 February</td>
<td>Visit to University of Sydney Power Laboratory</td>
<td>Vassilios G. Agelidis</td>
<td>IEEE</td>
<td>Eddie Fong</td>
<td>University of Sydney</td>
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<td>11 March</td>
<td>Gas Turbine Systems</td>
<td>George Fox</td>
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<td>25 March</td>
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<td>10 June</td>
<td>Metamaterials in Electromagnetic and Microwave Energy</td>
<td>Dr Ozgur Isik, Argus Technologies</td>
<td>IEEE</td>
<td>Eddie Fong</td>
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<td>22 July</td>
<td>Free Flow Marine Vortex Turbine</td>
<td>Michael Urch/ Kim Lyle, Elemental Energy Technologies Ltd</td>
<td>IEEE</td>
<td>Eddie Fong</td>
<td>EA Auditorium</td>
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</tbody>
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Please contact:
Mark O'Mally +61 4 11026960 or mark.omally@ieee.org
5. IEEE NSW Section 2009 Annual General Meeting Reservation

Date: Friday, 27 November 2009
RSVP: Wednesday, 18 November 2009
Times: 6pm Chapters’ AGMs, 7pm NSW Section AGM, and 8pm NSW Section Dinner and Network 2009
Venue: Sydney Hilton Hotel, 488 George Street, Sydney, NSW 2000
Contribution: $25 per person (including drinks on table).

Attending: AGM …… Dinner…… (Yes/No as applicable) Vegetarian…… (Yes/No as applicable)

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Company/Organisation………………………… Position in Organisation…………………………
Membership Number (for IEEE) ……………
Contact Phone Number: ………………… E-mail: ……………………………………………………………

PAYMENT DETAILS (If attending Dinner/Network 2009):

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<th>CATEGORY</th>
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</thead>
<tbody>
<tr>
<td>IEEE Members and Partners</td>
<td>$25</td>
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<tr>
<td>Non Members</td>
<td>$115</td>
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