

# IEEE New South Wales (NSW) Section, 2008 Report



Prepared by David E Burger [k3hz@ieee.org](mailto:k3hz@ieee.org)  
Section Chair – 2008.

Report date 22 January 2009.

## PART A - SECTION SUMMARY

### A.1 Executive Summary

Major Events and Achievements in 2008:

- Acceptance of the Cochlear IEEE Milestones nomination on 26 February 2008 by the IEEE History Center, Rutgers University. This is a first milestone nomination (and acceptance) to be obtained in Oceania and the first in Region 10 outside of Japan. A supplementary update was made in October'08, with the award outcome still pending.
- Introduction of a recognition award for the best speaker in the 2008 Joint lecture program. This is titled the "IEEE NSW Best Speaker Award in 2008, in memorial of Jim Vasseleu". The award is still being considered by the Awards Committee.
- Macquarie University student Michael Boers won the global IEEE MTT High Efficiency Power Amplifier Competition award, producing a 10 watt amplifier operating at 1.2Ghz with an efficiency of 80%.
- Mr Don Black, Chair of the Orange County Section in California visited and met with our Section here in February 2008, with a visit to The University of Sydney.
- Mr Roberto Saracco, 2008 appointed Director of the IEEE Communications Society visited our section from Italy on 4th March'08 and met with Communications Society members here.
- IEEE Communications Society distinguished lecturer Prof. Norman Beaulieu visited Sydney on 11-12 August'08.
- The successful conversion throughout the year of our EWH website to a Joomla content management system by Mr Eduardo Navarro of Puerto Rico, we now fully comply with IEEE web format and branding guidelines. The appointment of Fuat Acar to undertake web content management update activities was done in Oct 2008.
- A strong representation by IEEE NSW at the Quebec City 2008 Sections Congress with Eddie Fong and David Burger attending, and at the IEEE GOLD Congress with Ms Sarah Hakami attending.
- A major porting of the IEEE NSW History and heritage material and content across to the new IEEE Global History Network located at [www.ieeeahn.org/wiki](http://www.ieeeahn.org/wiki) This commenced in November 2008, and is in preparation for the IEEE 125 year anniversary for 2009.
- Mr Bob Grow, 2008 Chair IEEE-SA Standards Board, visited and met with our Section in coordination with the Singapore Convention centre.

### A.2 Financial Report

Opening balance of our CBA cheque account at 1 Jan 2008 was AUD\$34,669.22 and the Investment account balance AUD\$123,598.09

### A.3 List of Section Officer and Executive Committee Members

#### IEEE New South Wales Section - 2008 Committee

##### Executive Committee Members

Chairman	<a href="#">David Burger</a>
Vice-Chairman	<a href="#">David Tien</a>
Secretary	<a href="#">Antony Zaglas</a>
Treasurer	<a href="#">Nuala Ward</a>

##### Section Officers

Fellow Search	<a href="#">Walter Lachs</a>
Past Chair	<a href="#">Graeme Gwilliam</a>
Membership Development	<a href="#">Bruce Poon</a>
Professional Activities	<a href="#">David Burger</a>
Educational Activities	<a href="#">Ms Kim Chin</a>
Student Activities	<a href="#">Ali Hellany</a>
Awards and Recognition	<a href="#">Zak Zakarevicius</a>
Life Member Activities	<a href="#">John Robinson</a>
Nominations	<a href="#">Graham Gwilliam</a> , <a href="#">Bruce Poon</a>
Newsletter Editor	<a href="#">Eddie Fong</a>
GOLD Affinity Group	<a href="#">Alejandro Monroy</a> / Sarah Hakami
Historian	<a href="#">David Burger</a>
PEL/IAS/IE Chapter Chair	<a href="#">Danny Soetanto</a>
Comms/Sig Processing Chair	<a href="#">Iain Collings</a>
AP/MTT Chapter Chair	<a href="#">Ananda Sanagavarapu</a>
EMBS Chapter Chair	<a href="#">Jeff Armitstead</a>
LEOS/SSC/CS Chapter Chair	<a href="#">Graham Town</a>
Computer Chapter Chair	<a href="#">Kate Carruthers</a>
PES Chapter Chair	<a href="#">John Robinson</a>
Education Chapter Chair	<a href="#">Mark Lee</a>

## PART B - ORGANISATIONAL ACTIVITIES

### B.1 Membership Development Programs

#### ● Effort in Membership Development

The IEEE NSW Section targeted another 200 free student memberships in 2008. The sponsored memberships were for first time student members only. A total of 164 student members were sponsored in 2008. We also increased our visibility at Universities with posters, as well as maintaining a public "Google Calendar" for all our local NSW events. Many thanks to Mr Pankaj Mehta for keeping these events up to date.

The IEEE NSW google calendar event weblink is located here→

<http://www.google.com/calendar/embed?src=k3hz%40ieee.org&ctz=Australia/Sydney>

● Evidence of retention of members

2008 showed a good upturn in all membership grades, except for students, where we had across the board drops in memberships at all Universities. We also ran the largest ever student sponsorship program in NSW during 2008. The membership comparison to 2007 is shown below, based on figures as at 31 October.

Classification of IEEE NSW Member		2007	2008	from 2007
		31/10/2007	31/10/2008	
<b>Total Active members</b>		2337	2445	105%
Active members	excluding affiliates	2183	2304	106%
Active Life member	all grades	52	53	102%
Active senior members	including Fellows	156	165	106%
Active student members	all grades	350	304	87%
Active female members		161	162	101%

Student Branch	Number	Number	from 2007
University of New South Wales	132	99	75%
The University of Sydney	57	46	81%
Macquarie University	27	21	78%
University of Technology Sydney	46	21	46%
University of Wollongong	23	18	78%
Western Sydney University of Nepean	14	12	86%
Charles Sturt University	18	8	44%
<b>Total Students</b>	317	225	71%

Society Chapters in NSW	Number	Number	from 2007
Computer	788	770	98%
Communications / Signal Processing	440	479	109%
Power Energy	130	139	107%
Industrial Electronics / Power Electronics / Industrial Applications	88	96	109%
Lasers and Electro-Optics / Circuit and Systems / Solid State Circuits	82	91	111%
Antennas & Propagation / Microwave Theory & Techniques	77	77	100%
Engineering in Medicine and Biology	79	72	91%
Education	15	13	87%
<b>Total Active Chapter members</b>	1699	1737	102%

● GOLD, WIE and Life Members Group Activity

- IEEE NSW GOLD functions were conducted early in 2008 while Alejandro was looking after the GOLD group. Sadly Alejandro's work and finances did not allow him to continue in IEEE or this role, and we understand he has returned back to Bogota. We offer thanks for his participation. Sarah Hakami was appointed to the GOLD Chair in September 2008.
- An affinity start-up petition is still being canvassed for the second year now. A new WiE group here in New South Wales is still proposed. This is being championed by Ms Kim Chin.
- The Life Members will utilise the Nov '08 AGM to welcome new Life Members.

## B.2 Professional and Continuing Education Activities

Continuing Educational activities including conferences, technical event, training courses. IEEE NSW cooperated with the IEEE Australia Council on distinguished lecturer events.

### **B.3 Recognised educational Programs.**

All our conferences, technical events, training courses are filtered and classified and recognised by IET and Engineers Australia in NSW. IEEE NSW cooperated with the IEEE Australia Council on distinguished lecturer events.

### **B.4 Students Activities**

#### ● Active Student Branches activity

The University of New South Wales has the most active student branch in our Section, and has participated in all student awards conducted by NSW and the IEEE Australia Council. The University of Western Sydney student branch establishment and growth is being championed by Dr Ali Hellany with full support by the Section.

#### ● Recruitment of student members.

This recruitment drive has grown into two significant areas:

1. A sponsored student member program where the IEEE NSW Section actively sponsors the membership costs of 200 students. There were 70 full year student sponsorships made and 94 half year student sponsorships made in 2008.

2. The IEEE NSW Section participates in first year Electrical Engineering student briefings at The University of Sydney. This is now a regular fixture, and occurs in March each year.

#### ● Student Paper contest

This was developed by recent committee member Dr Ali Hellany of UWS. There are now two prizes on offer, The undergraduate prizes titled the "IEEE NSW Max Simons undergraduate Student Prize", and the "IEEE NSW Jim Vasseleu Postgraduate Student Prize". The implementation and publicity around these new prizes will be launched early 2009 given our academic calendar constraints.

#### ● Student Branch contest

This is promoted on behalf of the IEEE Australia Council where NSW has committee representation.

### **B.5 Awards**

● IEEE NSW prepared a History Milestone Nomination submission for the cochlear Implant, submitted on 20 September 2007, with acceptance from the IEEE History Center, Rutgers University received on 26 February 2008.

### **B.6 Chapter Activities**

Chapter	Activity
<b>NEW SOUTH WALES SECTION</b>	10
<b>EMB18</b>	7
<b>SP01/COM19</b>	5
<b>AP03/MTT17</b>	4
<b>C16</b>	4
<b>CAS04/LEO36/SSC37</b>	4
<b>E25</b>	4
<b>GOLD</b>	2
<b>IE13/IA34/PEL35</b>	2
<b>LIFE MEMBER</b>	2
<b>PE31</b>	2

A summary of Chapter and related Activities is located above.

Section: NEW SOUTH WALES Type: CHAPTER Geocode: R00509 as at 22 Jan 2009.

### **B.7 E-mail and Newsletter Activities, Home Page**

The NSW Section Chair distributed a monthly activities update e-mail to all members through the IEEE e-Notice facility. We have received good feedback about this style of communication with members.

- Number of hard print Newsletter –

One hardcopy newsletter was sent to all members located in NSW in July'08,

- Number of electronic Newsletters – The Newsletters are titled Circuit.

Three issues were produced in 2008, delivered on both e-mail and web. Additionally there was a monthly e-mail update issued to all members in NSW. An electronic copy of these Newsletters is at our website. For those without e-mail access, paper copies were sent for all three issues.

- Section, Chapters and Student Branches Web Pages

The new South Wales section WebPages includes Chapter links and material at :

<http://ewh.ieee.org/r10/nsw/>

We have engaged an IEEE volunteer Mr Eduardo Navarro from Puerto Rico to get our website migrated to a Joomla content management system. This commenced in May 2008. This has proved to be very successful, even though Eduardo had other significant other commitments to deal with. We express our sincere thanks to Eduardo for helping us out and also to Don Black, Chair of the Orange County Section in California for providing the introductions.

The Section website also includes all our Chapter activities. In October 2008, the committee appointed Mr Fuat Acar to undertake the Joomla content management of our website.

Student Branch WebPages are maintained at:

- University of NSW
- The University of Sydney
- Charles Sturt University
- University of Western Sydney

## **PART C – OTHERS**

### **C.1 Relationship with National Societies**

- An Memo of understanding is active between Engineers Australia and the IET during 2008. We have also cooperated in a 10 day Engineering week program held mid-year with Engineers Australia; with events and a \$1,500 sponsorship from IEEE NSW.

- IEEE NSW also sponsored a Young Engineers speaking function in concert with the Australian Institute of Energy on 22 April.

### **C.2 Special Events**

- There were no special events conducted in 2008, but preliminary planning for the IEEE 125 year anniversary in 2009 was undertaken.

### **C.3 Anticipated Problems**

- None.

## **PART D – GOALS AND PLANS**

### **D.1 Projects / Activities & Implementation Plans**

- To streamline financial matters and handovers between treasurers. The handover of signature to all accounts from the 2006 treasurer to 2007 treasurer took over 4 months.
- To consolidate our financial banking into one branch located in the city centre.

### **D.2 Future Plans**

As part of the ongoing succession plans with the committee for IEEE NSW, we have had three NSW participants attend the triennial IEEE Sections Congress (SC'08), where representatives from all 328 Sections in the world meet and share ideas, visions, experiences and establish contacts. The challenge facing the IEEE is maintaining its relevance, its values and initiatives in the face of changing social behaviors. The SC'08 communicated means of engaging the media, with technology news, awards and recognition and raising the profile of important individuals. There is no Nobel Prize for technologists, and the IEEE is working to establish the IEEE Medal of Honour as the highest global technology award.

The SC'08 also gave attendees a first hand look at the personal stories behind 8 of the past IEEE presidents, as well as allowing us to meet some of the characters within the IEEE. It is apparent that most IEEE Sections face similar issues, as well stimulating lateral ideas to adapt what IEEE offers members.

# NOMINATION FORM

IEEE MILESTONE IN ELECTRICAL ENGINEERING AND COMPUTING

Date: 1 June 2007

To:

Director, Milestones Administrator  
IEEE History Centre  
Rutgers University  
39 Union Street  
New Brunswick, NJ 08901-8538 USA

Email: [ieee-history@ieee.org](mailto:ieee-history@ieee.org)

From:

David E. Burger, IEEE NSW Section – Chair 2007  
EnergyAustralia  
L16, 570 George street  
SYDNEY, NSW 2000 Australia

Email: [k3hz@ieee.org](mailto:k3hz@ieee.org)

**1 Name of proposed Milestone:**

The Bionic ear – Cochlear Implant

**2 What is the location of the proposed Milestone?**

Cochlear Limited  
14 Mars Road  
PO Box 629  
Lane Cove NSW 2066  
AUSTRALIA

**3 In what IEEE Section does it reside?**

IEEE New South Wales

#### 4 What is the historical significance of the work (its technological, scientific, or social importance)?

Cochlear Implants today have restored hearing to more than 100,000 severe and profound hearing impaired in 80 countries, dramatically enhancing the quality of life of the people implanted.

For children, early intervention with a Cochlear Implant means that they will have a good chance to attend mainstream education and lead a normal life. For adult cochlear implantation often brings back the opportunity to participate in the labour market.

Cochlear Implants rank very high on health economics cost-benefit scales: few other medical interventions are more cost effective than Cochlear Implants.

Cochlear Implants are the first successful bionic implants that replace a substantial function in the human body, i.e. the inner ear. While many other active implants have been developed and are successfully used since decades (the pace maker to be the most well-known), their function is more of a supportive nature rather than substituting the organ.

Whilst Cochlear Implants initially treated severe to profound hearing loss, in recent times, the inclusion criteria are moving downwards to include also moderate-to-severe hearing impaired if the speech performance with classical hearing aids is insufficient.

For the first 20 years of Cochlear Implantation, only one ear would be implanted (while the hearing loss needs to be bilateral to obtain reimbursement), but over the last 5 years bilateral implantation has become very common and can be expected to become the standard of care in many countries.

#### 5 What features set this work apart from similar achievements?

- **The Cochlear implant** is a part of **medical research history**. The first cochlear implant surgery took place in 1982 following 15 years of research by a team led by Professor Graeme Clark, a pioneer of the industry. This was a world first and pioneered new technology with ongoing 30 year, organic, cumulative, planned process of product development.
- While many research groups around the world have been working on electrical stimulation to overcome deafness, it was **the invention of the multi-channel Cochlear Implant** that was the real breakthrough.
- **Cochlear the technology leader** continues to **set the industry standard** in innovation, safety and reliability – Cochlear Implants are designed to last a life long and hence very challenging reliability requirements need to be met. To some extent a Cochlear Implant is similar to a satellite: once implanted/launched there is now way to physically change or alter the device.
- **Cochlear market enabler**. Through the years Cochlear have launched prolific industry first technology advancements both in implant and speech processor expanding the use of the Cochlear implant, creating new trends in the market. (Reference Page 3, significant dates).
- **Cochlear** today maintains **industry global leadership**, through its quality, attention to detail and delivering the best implantable technology available to enable recipients to hear now and always. **Cochlear's mission: global leader in innovative**



**implantable hearing solutions**, highlights innovation and recognize Cochlear's exemplary heritage of developing ground breaking advances in implant technology.

## 6 Present owner(s) of site(s):

Cochlear Limited  
(ABN 96 002 618 073)  
14 Mars Road  
Lane Cove NSW 2066  
Australia  
Tel: 61 2 9428 6555  
Fax: 61 2 9428 6353

## 7 Disposition of owner(s) toward Milestone (attach supporting material):

We were approached on 3 May 2007 and were open to pursuing this further, as well as to share our vision, Cochlear's focus to continually enrich the lives of its recipients enabling hearing and enhanced independent lifestyle.

## 8 Significant date(s):

1967	<ul style="list-style-type: none"> <li>Professor Graeme Clark commenced research to investigate the feasibility of single and multi-channel cochlear implants. Research supported by public donation.</li> </ul>
1978	<ul style="list-style-type: none"> <li>Rod Saunders implanted with the first research multi-channel cochlear implant, by Professor Graeme Clark – Melbourne Hospital, Australia.</li> </ul>
1981	<ul style="list-style-type: none"> <li>Cochlear global headquarters established in Sydney, Australia.</li> </ul>
1982	<ul style="list-style-type: none"> <li>Graham Carrick implanted with the first commercially available Nucleus 22 cochlear implant – the industry's only 22 channel implant technology.</li> </ul>
<b>Note:</b>	<ul style="list-style-type: none"> <li>At least 5 other research groups around the world working on multi channel device but Nucleus was the <b>first</b> group to produce first commercial multichannel device.</li> </ul>
1985	<ul style="list-style-type: none"> <li><b>First</b> cochlear implant system to gain Food and Drug Administration (FDA) clearance in the USA for use by adults.</li> </ul>
1990	<ul style="list-style-type: none"> <li><b>First</b> Cochlear implant system to gain FDA clearance in the USA for use by children .</li> </ul>
1993	<ul style="list-style-type: none"> <li><b>First</b> Auditory Brainstem Implant surgery.</li> </ul>
1994	<ul style="list-style-type: none"> <li><b>Milestone:</b> 10,000 Nucleus recipients worldwide.</li> <li>SPEAK speech-coding strategy introduced.</li> </ul>
1997	<ul style="list-style-type: none"> <li>Nucleus 24 Cochlear implant released.</li> <li>Neural Response Telemetry (NRT) introduced providing an objective measurement of the hearing nerve's response to electrical stimulation.</li> <li>The <b>first</b> MRI safe implant up to 1.5 Tesla (not yet approved in USA).</li> </ul>
1998	<ul style="list-style-type: none"> <li><b>Milestone:</b> 20,000 Nucleus recipients worldwide</li> <li><b>First</b> Channel Behind The Ear (BTE) sound processor released</li> <li>ACE speech coding strategy introduced</li> </ul>
1999	<ul style="list-style-type: none"> <li>The only cochlear implant with FDA clearance for infants at 12 months.</li> </ul>
2000	<ul style="list-style-type: none"> <li><b>Milestone:</b> 30,000 Nucleus recipients worldwide.</li> </ul>

	<ul style="list-style-type: none"> <li>• Introduction of the award-winning Nucleus 24 Contour peri-modiolar electrode array.</li> </ul>
2001	<ul style="list-style-type: none"> <li>• Nucleus 24 Double Array released.</li> </ul>
2002	<ul style="list-style-type: none"> <li>• <b>Milestone:</b> 40,000 Nucleus recipients worldwide.</li> <li>• High rate third generation BTE ESPrit 3G sound processor released with ADRO introduced to the Sprint Body-worn sound processor.</li> <li>• Multiple digital speech coding strategies available on BTE.</li> </ul>
2003	<ul style="list-style-type: none"> <li>• <b>Milestone:</b> 50,000 Nucleus recipients worldwide</li> <li>• The <b>first</b> implant that protect delicate cochlear structures, Nucleus Contour Advance</li> </ul>
2004	<ul style="list-style-type: none"> <li>• The <b>first</b> MRI-safe implant up to 3.0 Tesla (not yet approved in USA).</li> </ul>
2005	<ul style="list-style-type: none"> <li>• Cochlear acquires Swedish company Entific Medical Systems (renamed Bone Anchored Solutions (BAS). The products include the Baha and Vistafix product lines.</li> <li>• <b>First</b> cochlear Implant splash proof sound processor</li> <li>• <b>First</b> cochlear implant multi-microphone sound processor</li> <li>• <b>First</b> cochlear implant listening option (SmartSound and Beam)</li> </ul>
2006	<ul style="list-style-type: none"> <li>• <b>Milestone:</b> more than 80,000 Nucleus recipients worldwide</li> <li>• <b>Milestone:</b> more than 30,000 Baha recipients worldwide.</li> </ul>
2007	<ul style="list-style-type: none"> <li>•</li> </ul>

## 9 Proposed citation (optional; absolutely limited to 75 words; 50-60 is preferable.

From one man's passion for hearing, Cochlear Implants have become the preferred and very successful intervention to restore hearing in severe and profound hearing impaired. By using electrical stimulation of the hearing nerve to substitute the function of the inner ear (the cochlea) more than 100.000 people are able now to attend mainstream education and lead a normal life.

## 10 Historic significance of this work: its importance to the evolution of electrical and computer engineering and science

The challenges to develop and manufacture Cochlear Implants are huge. It starts with developing a deep understanding of the function of normal hearing and of sensori-neural hearing impairment. With this knowledge a device needed to be developed that mimics the operation of a very complex human organ in order to provide the brain with an information stream that can be translated to speech understanding.

The entire signal path between capturing the sound to delivery of small electrical stimuli in the inner ear is complex from both a system point of view as well as from a practical implementation point of view. To add to the challenge to devise a system that mimics the function of the ear, two other aspects made the invention a practical Cochlear Implant very challenging:

- Power consumption: in order to make sure that the technological substitution of the inner ear can be used in daily life, the power requirements of the Cochlear Implant system needed to be absolutely minimal. This had lead to the fact that the signal processing in Cochlear

Implants has been world leading in terms of ultra low power consumption. Only a few milliwatts are available to mimic the function of one of the most complex human organs.

- Size: in order to implant a Cochlear Implant in children often not older than one year, the practical implementation of a Cochlear Implant needed to achieve a high degree of miniaturisation; next to this the external part of the Cochlear Implant System, i.e. the so called Speech Processor where most of the signal processing takes place, needed to be wearable, something that was an extreme challenge initially. Since then advances in Integrated Circuit technology have allowed to further miniaturisation.
- Reliability: the invention of a Cochlear Implant could only become a success if the implant could be designed and manufactured in a reliable way. From the outset the target was to achieve an implant that would last 75 years in order to cater for the entire life of a child implanted at a very young age. This challenge is pretty unique compared to other active implantable medical devices: e.g. pace makers are replaced every 5 to 10 years since they use a primary battery. Cochlear Implants obtain their operating power from the externally worn part (the Speech Processor) through an inductive link, so there was not need for regular re-implantation.

## 11 Its importance to regional/national/international development

Cochlear Limited, a prominent Australian company, celebrates 25 years in cochlear implant research and development, this year, and continues to lead the industry worldwide. Cochlear was the first cochlear implant manufacturer to develop a multi-channel cochlear implant in 1982. Cochlear has now produced several generations of Nucleus cochlear implants, with each successive generation of implant more reliable than the last. Some of the recipients who received the very first implant the CS22 still have operational devices today. This is a testament of Cochlear's due diligence to implant design and production.

Cochlear maintains global footprint with focus on technological innovation with approximately 12% of sales spent on Research and Development. With its headquarters located in Australia, Cochlear is staffed with 1500 employees worldwide with direct operations in 20 countries and products sold in 90 countries.

The presence of Cochlear in Australia has helped to establish a medical device industry in New South Wales and Australia. Together with Resmed and Ventracor, Cochlear is one of the leading medical technology companies in Australia.

## 12 What features or characteristics set this work apart from similar milestones?

The most unique part of the Cochlear Implant milestone is the unique symbiosis between biology, technology and resolving a real human need. Few other technological interventions have made such a dramatic impact on people's lives.

(i) List of supporting materials included with nomination:

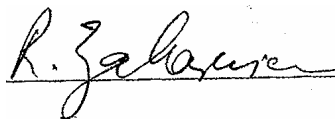
1. Current Cochlear Implant in the market
2. First commercial Implant
3. Cochlear Implants 1982 to 2006
4. COH a history of innovation, 1978 to 2006
5. Cochlear and Cochlear market regulators
6. Cochlear list of awards

Signature of Section Chair,



Print name: David E Burger  
address and PO Box 37, ST LEONARDS, NSW, 1590 Australia  
email k3hz@ieee.org

Section Historian Nomination Signature



Print name, Ramutis Zakarevicius  
address and Unit 3, 79-81 Oakland Avenue, The Entrance, NSW 2261,  
Australia  
email ramzak@bigpond.com

The person(s) responsible within your organizational unit for preparing the formal milestone nomination, and preparing the ceremonial events with publicity:

Name : David E Burger SM7425952 Email: k3hz@ieee.org

#### Planning Checklist

21 September 2007 - Proposal sent to History Centre, permission from Cochlear for IEEE to use this document.

- \_\_\_ Communications with History Centre Resolved and Proposal accepted
- \_\_\_ Nomination Form agreed and submitted to History Centre (within six months of Proposal Acceptance)
- \_\_\_ Nomination Approved by History Committee
- \_\_\_ Final Approval From IEEE Board of Directors – Official IEEE Milestone
- \_\_\_ Planning for Ceremony and Publicity, Invitations sent

# Nucleus® Freedom™ system



Nucleus Freedom cochlear implant with Contour Advance Electrode



Nucleus Freedom BTE Sound Processor



Nucleus Freedom Bodyworn Sound Processor



Nucleus Custom Sound Suite

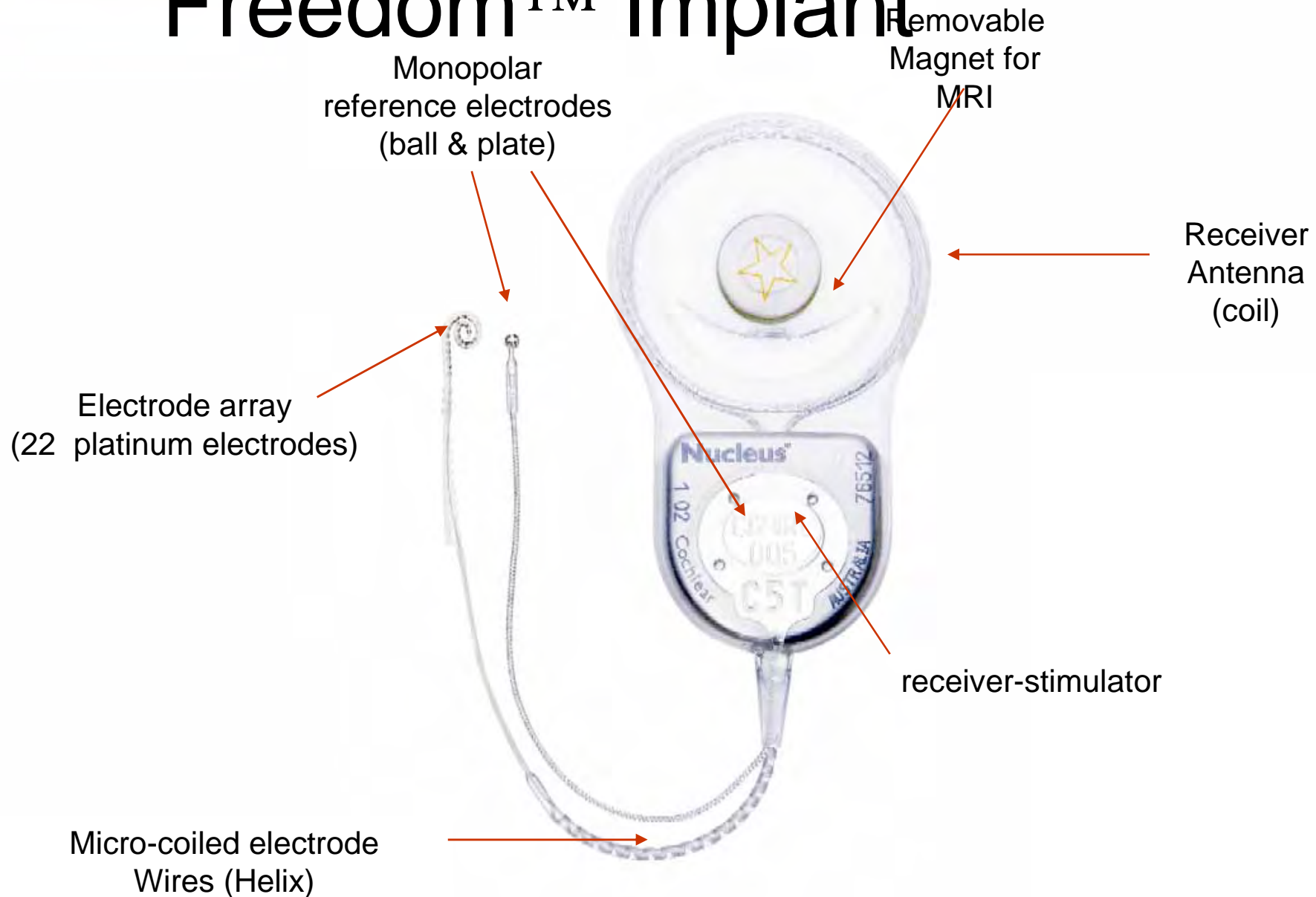


Programming Pod

Hear now. And always



# Freedom<sup>TM</sup> Implant





# Nucleus<sup>®</sup> Freedom<sup>™</sup> Sound Processo



- Industry's first **water & sweat resistant** design tested to international standard (IEC60529)
- **Modular design**—switch from BW to either BTE in seconds
- **LCD** display with **Built-in Help** messages & **Indicator status light**
- **Four Digital Signal Processor** (DSPs) on a single microchip
- **Dual microphones** for input processing technologies. SmartSound<sup>™</sup>



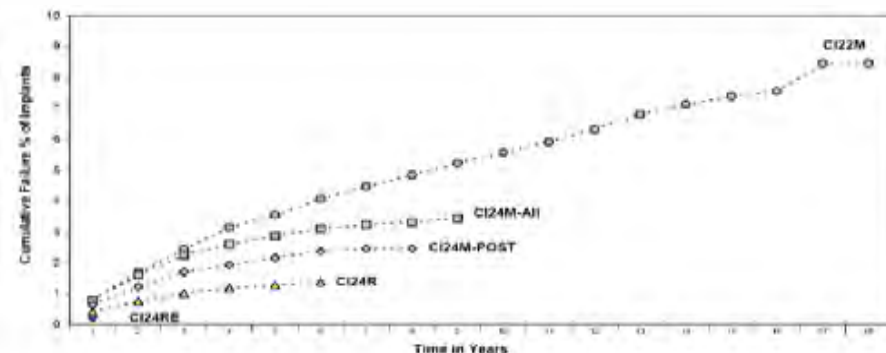
# Nucleus Freedom Implant

The current product in the market



- 4<sup>th</sup> generation ASIC CMOS chip
- Cleaner sound reproduction
- Less internal noise
- Low power consumption
- Ultra low noise NRT amp ( $\sim 1\mu\text{V}$ )
- Capability for the future

- Unmatched reliability
- Decades of in-house hermetic feed-through manufacturing
- 18 month cumulative survival rate of 99.91%
- Contour Advance electrode well proven



For over 15 years, Cochlear has published regular reliability reports in accordance with the relevant ISO standard. All device failure modes are included in these reliability reports, including any failure mechanism related to electrode anomalies. In addition, Cochlear complies with the principles outlined in the recent European Consensus on device failure categorisation and reporting.

Hear now. And always





# Advancing hearing performance

CNC words 70dB SPL Nucleus 3 and Nucleus Freedom

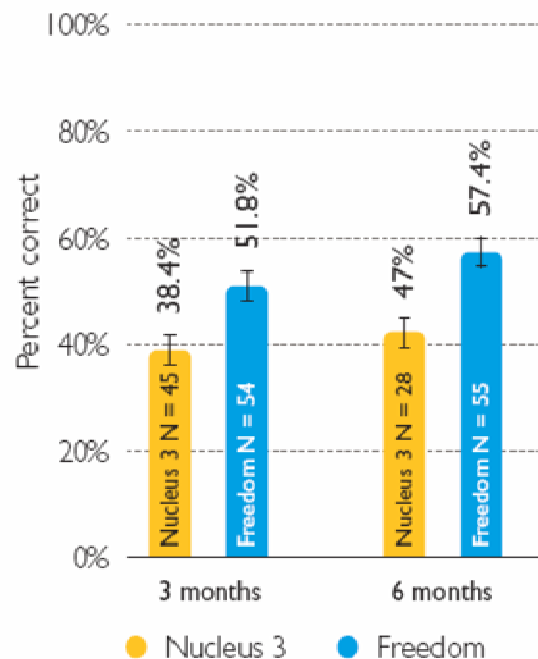


Figure 1: US multi-centre clinical study. Speech performance in quiet: A comparison between Freedom and the Nucleus 3 cochlear implant system. (Balkany et al, 2006, submitted for publication; Cochlear Ltd, 2005).

- The Freedom system is designed from the ground up to deliver performance in real world listening situations.
- Preprocessing strategies further refine key elements of sound ie. Beam, ADRO, ASC
- Dual Microphones enable adaptive reduction of competing background noise with Beam.

## First Commercial Cochlear Implant (1982) Nucleus 22 Implant System

Cochlear Implant CI 22M (Front)



Cochlear Implant CI 22M (Back)



Speech Processor Interface



Wearable  
Speech Processor  
(WSP-1982)

Hear now. And always



# Cochlear Implants over the years

## Nucleus 22 implant system – 4 upgrades over 20 years



## Nucleus 24 implant system – 3 upgrades in 10 years



# A History of Innovation

78

## **The first multi-channel research implant**

Stimulates different sites in the cochlear to effectively transmit pitch, which is important in understanding speech

82

## **The first titanium casing technology that other manufacturers are now embracing**

Encloses protects and seals implant components to avert fractures associated with ceramic casing

85

## **The first system to be approved by the FDA for use by adults**

Strict safety and regulatory standards are required to be met and demonstrated prior to FDA approval ensuring quality and performance

90

## **The first system to be approved by the FDA for use by children**

The Nucleus Contour implant system has full FDA approval for both adults and children making it the most widely accepted system

97

## **The first MRI safe implant up to 1.5 Tesla**

The removable magnet allows for high power MRI scans, important for diagnosing many types of injuries and conditions, if required

## **The first implant capable of Neural Response Telemetry (NRT™)**

NRT™ provides objective measurement of the hearing nerve's response to electrical stimulation. This offers reassurance that the auditory nerve is responding to the system as expected



Hear now. And always





# A History of Innovation

98

## **The first multi-channel BTE speech processor**

A speech processor worn entirely behind the ear, frees recipients from long cables and bulky components



00

## **Introduction of the award-winning Nucleus® 24 Contour™**

**perimodiolar electrode array**  
Designed to protect the delicate structures of the cochlea which is considered fundamental to the preservation of existing hearing

02

## **The first BTE speech processor with in-built telecoil**

Easily talk on the phone with the flick of a switch with requiring cumbersome cables or attachments



05

## **First splash proof speech processor**

The Nucleus Freedom speech processor is designed to be splash proof and can withstand excessive perspiration and humidity

## **First speech processor using Beam™ technology**

Beam is designed to focus in on sounds coming from directly in front of the listener and soften surrounding sounds by use of directional and omni-directional microphones

06

## **More Freedom for everyone**

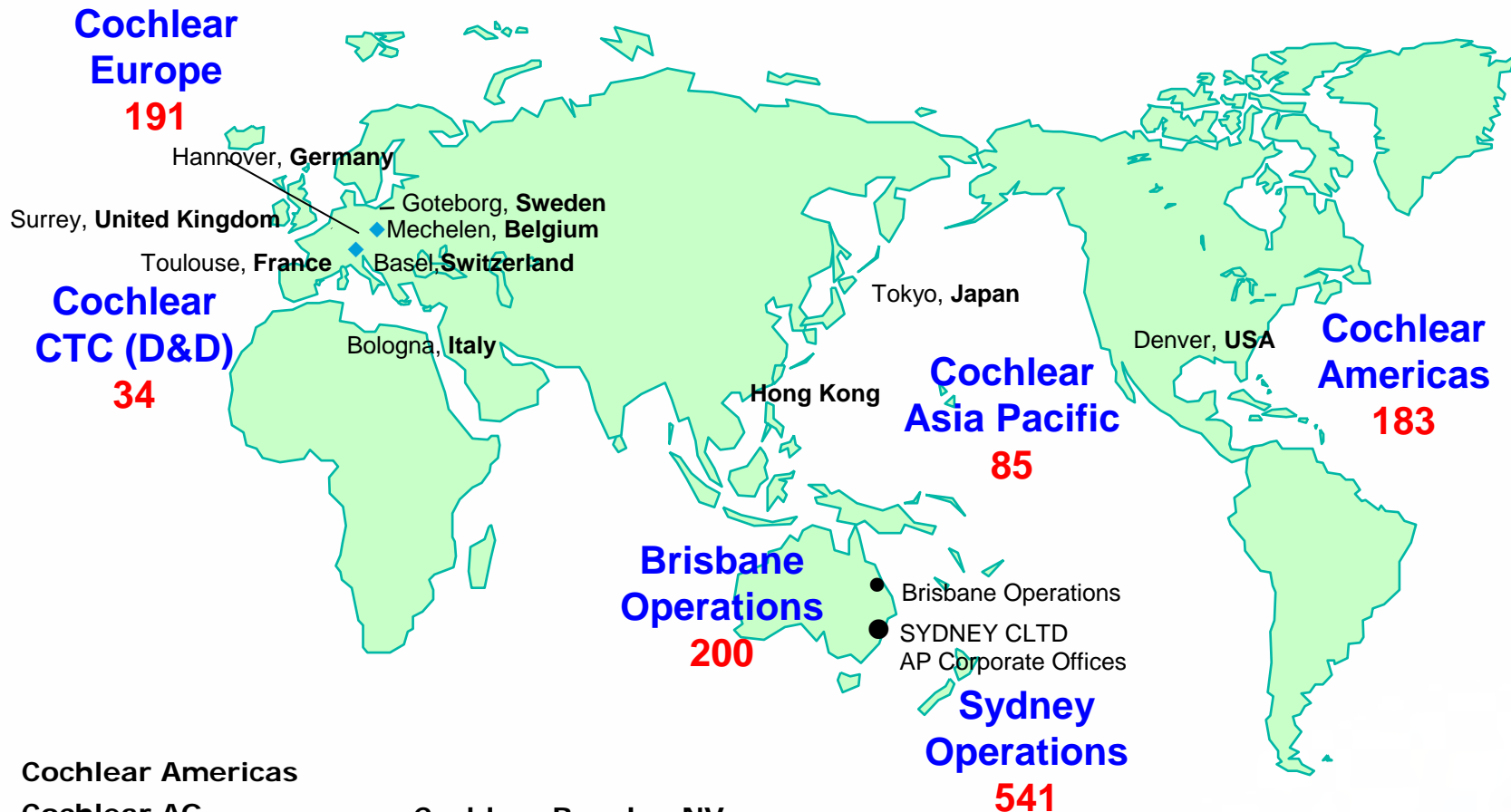
The Nucleus Freedom for N24 speech processor gives the power and flexibility of the Freedom speech processor to recipients with the Nucleus 24 series implant

Rechargeable batteries and a mini BTE configuration enable more lifestyle choices for all Freedom recipients



Hear now. And

# Where's Cochlear?



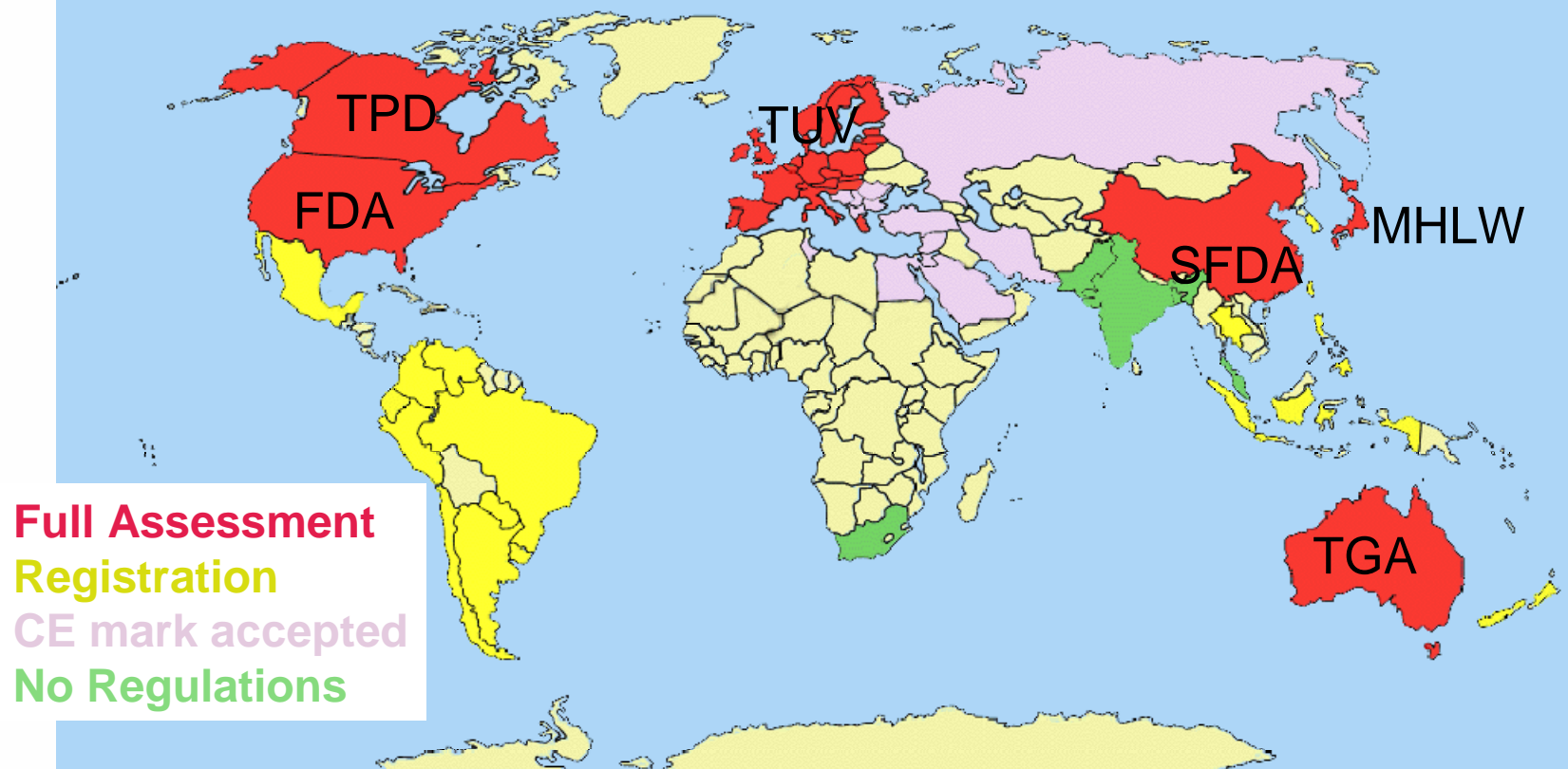
Cochlear Americas  
Cochlear AG  
Cochlear Canada  
Cochlear Italia  
Cochlear GmbH  
Cochlear Europe Ltd  
Nihon Cochlear Co Ltd

Cochlear Benelux NV  
Cochlear France S.A.S.  
Cochlear Bone anchored solutions France S.A.S.  
Cochlear Asia Pacific  
Cochlear Nordic AB  
Cochlear (HK) Ltd

Hear now. And always



# Cochlear Markets & Regulators



The six countries that require a full assessment to establish that our devices are safe and effective prior to being released are:  
Australia, Canada, European Union, Japan, USA & China

<b>Year</b>	<b>Award</b>
2006	AIPM National Project Management Award
2006	NSW Product Development Project of the Year - NSW PMAA 2006 Awards
2006	2006 Australian Design Awards -- Medical and Scientific Category – 19 May 2006 - Nucleus Freedom System
2006	2006 Australian Design Awards - Engineers Australia Award for Engineering Design Excellence – 19 May 2006 - Nucleus Freedom System
2006	2006 Medical Design Excellence Awards (MDEA) - Nucleus Freedom System
2006	Frost & Sullivan - Australia Best Practices Awards - Medical Devices Vendor of the Year
2006	Frost & Sullivan – Australia Best Practices Awards – Medical Devices Product of the Year – Nucleus Freedom
2005	Australian Engineering Excellence Awards 2005 – Nucleus Freedom BTE Speech Processor (November 2005)
2005	Engineering Excellence Awards in 2 categories: Research & Development Excellence Award and Manufacturing - Products, Facilities & Processes Excellence Award. Both awards were for Nucleus Freedom BTE Speech Processor
2005	Sir William Hudson Award for Engineering Excellence - for Cochlear's new behind-the-ear speech processor
2003	CRC Association Excellence in Innovation Award
2003	40th Australian Export Awards: Cochlear won the Australia-made Large Manufacturer category
2003	IPRIA – Melbourne Institute of Innovation Index Award - For being the most innovative company in Australia in 2002, according to the IPRIA – Melbourne Institute Innovation Index
2002	Award – Winner of 2002 Best Crisis Management for Excellence in Investor Relations



<b>Year</b>	<b>Award</b>
2002	Frost & Sullivan Market Engineering Awards (USA) - Product of the Year Award for Nucleus 24 Contour Electrode
2001	Austcham ANZ Business Excellence Award
2001	Australian Design Award - ESPrit 3G
2001	50 Exports - Columbus Line: Australia's 50 Most Beautiful Exports 2001
2001	Australian Design Award™ in the category of Software – Electronics Design
2001	The 2001 Medical Design Excellence Awards (USA) organized by Canon Communications: Silver Medal - Nucleus 24 Contour implant (emphasis on Contour Electrode)
2001	The Institution of Engineers, Australia - The 2001 Engineering Excellence Awards: Won in two categories: Engineering R&D Training & Process; and Welfare, Health and Safety - for Nucleus 24 Contour Electrode
2001	Certificate of Appreciation - National Youth Science Forum
2000	Standards Australia 2000 Australian Design of the Year Award for Nucleus 24 Contour implant (emphasis on Contour Electrode)
2000	Deloitte Fast 100 - Ranked #25 Australia's Top Growth Performers for 2000
2000	Australian Design Mark for Nucleus 24 Contour (28 February 2000)
2000	Overseas Trading - Outstanding achievement by an Australian product and helping Australia's export effort (14 October 2000)
1999	Price Waterhouse Cooper. In recognition of an outstanding contribution to the community. Verse by Daniel Moody aged 16 (implanted at age 9)

<b>Year</b>	<b>Award</b>
1997	Business Asia 1997 Awards, Citibank - Best Australian Use of Technology
1997	National Engineering Excellence Award: For excellence in research & development - Nucleus 24 Cochlear Implant System
1997	Institution of Engineers, Australia National finalist – 1997 National Engineering Excellence Awards for N24 system.
1997	National Engineering Excellence Award Ausindustry Award for Excellence in Research & Development 1997 - Nucleus 24 Cochlear Implant System
1996	Engineering Excellence Award Winner: Engineering Products & Manufacturing for SPrint Cochlear Implant System (16 October 1996)
1996	Engineering Excellence Award Winner: Bradfield Award for SPrint Cochlear Implant System (16 October 1996)
1996	Engineering Excellence Award Winner: Engineering Innovation for SPrint Cochlear Implant System (16 October 1996)
1996	Engineering Excellence Award – Highly Commended: International Projects & Exports for SPrint Cochlear Implant System (16 October 1996)
1995	IR&D Board - Technology Innovation. For outstanding achievement in technological innovation and its commercialisation. Presented by the Hon Peter Cook, Minister for Industry Science & Technology (May 1995)

<b>Year</b>	<b>Award</b>
1993	Tomorrow's World Excellence in Innovation (18 November 1993)
1992	Australia - Israel Export Award (10 November 1992)
1988	Bicentennial Export Award Honoured for Export Achievement in the Medium Manufacturer Category
1986	Export Award: Golden Boomerang Award from Westpac Banking

**IEEE New South Wales Section**  
**221<sup>st</sup> Executive Committee Meeting Minutes**

Monday 11<sup>th</sup> February 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 3

1. Attendance

David Burger-Chair  
Antony Zaglas  
Bruce Poon  
Ramutis Zakarevicius  
Eddie Fong  
Alejandro Monroy

David Tien  
Faz Rahman  
Walter Lachs  
Nuala Ward  
Ali Hellany

Guests

Sarah Hakami(UNSW)  
James Wong(UNSW)  
Deon Rowley(IET)

Apologies

Graeme Gwilliam  
Graham Town  
Karu Esselle  
Sam Reisenfeld

John Robinson  
Kate Carruthers  
Vassilios Agelidis  
Carolyn McGregor

2. Agenda

Agenda accepted

3. Minutes of November 2007 Meeting

3.1. Corrections

- David Burger advised that in item 4.1 the IEEE candidates name was John Vig. The minutes were accepted.

3.2. Business Arising

- No business arising

4. 2008 NSW Section Committee Positions

4.1. The following appointments to the Committee were decided

- Fellow Search – Walter Lachs
- Membership development – Bruce Poon
- Professional Activities – David Burger(David Tien to assist with Engineering Week)
- Educational activities – Kim Chin
- Student activities – Ali Hellany
- Awards and Recognition - Ramutis Zakarevicius
- Nominations – Bruce Poon
- Historian – David burger
- Webmaster – Some interest(Rob Menegon minor changes only)
- Conference Coordinator(new position Walter Lachs Moved & Tony Zaglas Seconded) – David Tien
- GOLD affinity – Alejandro Monroy
- Life Member Activities – John Robinson
- Women In engineering – Kim chin
- Additional Committee member Candice Gilmore

5. Correspondence

- No correspondence.

6. Treasurers Report

Rev: 0(Draft)

23 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp1 of 4

**IEEE New South Wales Section**  
**221<sup>st</sup> Executive Committee Meeting Minutes**

Monday 11<sup>th</sup> February 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 3

- 6.1. Nuala Ward tabled treasurers Report dated 11-2-08
  - 6.2. Nuala Ward missing some statements for cheque account and can not find record of one cheque
  - 6.3. Some information regarding cash management account missing
  - 6.4. David Burger to download statements tomorrow and provide to Nuala Ward.
  - 6.5. David Tien to do BAS – needs figures
  - 6.6. David Tien to try and obtain statement for cash Management account.
  - 6.7. Paperwork for changing signatories to accounts to be done tonight(David Tien & Nuala Ward)
  - 6.8. Need to get L50 form in by 22 February 2008(close of business NY time) for 10% bonus
7. Circuit Editor Report
- 7.1. Eddie Fong asked that all articles for March Circuit be submitted no later than Friday 15 February 2008.
8. Committee Reports
- 8.1. Fellow Search – Walter Lachs Chair
    - Danny Soetanto's nomination for Fellow was not approved.
    - All fellow nominations to be forwarded to Walter Lachs.
  - 8.2. Membership Development – Bruce Poon Chair
    - Bruce Poon tabled membership report.
    - 80 free student memberships taken up(120 free student memberships left) – extend deadline to 1 April 2008.
  - 8.3. Professional Activities – David Burger Chair
    - Lecture by Prof Vassilios Agelidis on 14 February had to be cancelled due to illness and overseas commitments by speaker. David Burger will circulate revised Lecture program for 2008. There are some vacancies.
  - 8.4. Educational Activities- Kim Chin Chair
    - Some discussion of CD content. CD in progress.
  - 8.5. Student Activities – Ali Hellany Chair
    - Try and contact all Student Chairs and make contact with Councillors
    - Sarah Hakami requested deadline for student paper submission be extended. David Burger to look at extending date(1 April 2008?)
  - 8.6. Awards and Recognition - Ramutis Zakarevicius
    - Milestone award paperwork submission by Cochlea in progress
  - 8.7. Nominations – Bruce Poon Chair
    - Bruce Poon to look for others to assist
  - 8.8. Historian – David Burger Chair
    - No report
  - 8.9. Webmaster
    - There have been some expressions of interest in the webmasters position.

**Actions:**

Rev: 0(Draft)

23 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp2 of 4

IEEE New South Wales Section  
**221<sup>st</sup> Executive Committee Meeting Minutes**

Monday 11<sup>th</sup> February 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 3

- **David Burger to follow up**

9. Affinity Groups

- 9.1. GOLD Affinity Group – Alejandro Monroy Chair
  - Need two functions for 2008.
- 9.2. Life Member Activities – John Robinson Chair
  - Need two functions for 2008.
- 9.3. Women In Engineering(WIE) – Kim Chin Chair
  - Acquisition of required signatures for application in progress.

10. Chapter Reports

- 10.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - P Ananda Sanagavarapu chair
  - Need soft copy of 2007 Chairs report
- 10.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair
  - Awaiting signed petition regarding CSP/OCE joint chapter formation.
  - Need soft copy of 2007 Chairs report(David Burger to attach to AGM minutes)
- 10.3. Computer Chapter - Kate Carruthers Chair.
  - 2007 Chairs Report received.
- 10.4. Education Chapter – Mark Lee Chair
  - Need soft copy of 2007 Chairs report.
- 10.5. **Engineering in Medicine and Biology Society** - Jeff Armistead Chair
  - 2007 Chairs Report received.
- 10.6. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter - AP Graham Town Chair
  - 2007 Chairs Report received.
- 10.7. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter - P Danny Soetanto Chair
  - Printed copy of 2007 Chairs Report received.
- 10.8. **Power Engineering Society** chapter- John Robinson Chair
  - 2007 Chairs Report received.

11. Meetings and Conferences

- 11.1. Auswireless 2007 is over and awaiting Conference funds reconciliation.
- 11.2. Oceans Conference 2010 organisation is progressing and subject to joint chapter formation regarding IEEE financial contribution.

**Actions:**

- **Paperwork to be submitted.**
- 11.3. Region 10 2008 Student/GOLD/WIE Congress(Delegate(s) to be selected)
- 11.4. ICITA 2008 23 – 26 June 2008 Hilton Cairns(Technical Sponsorship)
- 11.5. Other Conferences.

Rev: 0(Draft)

23 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp3 of 4

IEEE New South Wales Section  
**221<sup>st</sup> Executive Committee Meeting Minutes**

Monday 11<sup>th</sup> February 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 3

12. Other Business

12.1. Uncommitted Funds

- Need suggestions on ways of investing uncommitted funds.
- Matter Carried Over

13. Next Meeting

13.1. Next Section Executive Meeting will be at 7:00pm on the 3<sup>rd</sup> March 2008.

14. Meeting Closed

14.1. Meeting closed 9:00pm

Rev: 0(Draft)

23 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp4 of 4

**IEEE New South Wales Section**  
**222<sup>nd</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> March 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

1. Attendance

David Burger-Chair  
David Tien  
Nuala Ward  
Antony Zaglas

Bruce Poon  
Walter Lachs(left 8:05pm)  
Ali Hellany  
Iain Collings

Guests

Apologies

Graeme Gwilliam  
Graham Town  
Ramutis Zakarevicius  
Karu Esselle  
Sam Reisenfeld  
John Robinson

Kate Carruthers  
Vassilios Agelidis  
Eddie Fong  
Kim Chin  
Faz Rahman  
Ananda Sanagavarapu

2. Agenda

Agenda accepted

3. Minutes of February 2008 Meeting

3.1. Corrections

- David Burger advised that in item 3.1 there were a couple of spelling mistakes. Walter Lachs moved minutes be accepted. Ali Hellany seconded the motion. The minutes were accepted.

3.2. Business Arising

- No business arising

4. Correspondence

4.1. Cochlea has accepted the nomination for Milestones Award

4.2. David Burger has been provided with draft financial info for Auswireless 2007.

4.3. Power Engineering Society name to be changed to Power and Energy Society subject to vote by PES members.

5. Treasurers Report

5.1. Nuala Ward tabled treasurer's Report dated 3 March 2008. To be appended.

5.2. Cheque and Online Business Saver Account signatures changed

5.3. Cash Management Trust account signatures to be changed

5.4. Statements for Cash Management account still required to finalise L50 for 2007.

5.5. Cash Management Account funds to be moved to Business Online saver Account.

5.6. Auswireless Conference draft statement of account provided. Some outstanding issues(GST). Seed money and profit share to be paid to IEEE NSW Section.

5.7. Bank Account Statements to be sent to the Professional Centre.

5.8. L50 form lodged but not by 22 February 2008(close of business NY time) for 10% bonus.

5.9. BAS reports not completed

5.10. Tax and BAS statements contact Authority needs to be changed

5.11. Confirm IEEE NSW is incorporated.

5.12. ASIC listings – any updates for treasurer?

5.13. Cheque dated 17/11/03? not banked.

5.14. 2008 budget no further action.

Rev: 0(Draft)

23 March 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp1 of 4



IEEE New South Wales Section  
**222<sup>nd</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> March 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

**Actions:**

- ***Nuala Ward to Submit L50 by 31 march***
- ***David Tien, Ian Boyd, Graeme Gwilliam to sign CMT transfer document***
- ***David Tien/Ian Boyd to obtain CMT account outstanding statements***
- ***David Tien to assist with BASS statement and transfer of Authority***
- ***David Burger to advise re Incorporation***

6. Circuit Editor Report

6.1. March Circuit is in progress and will be issued soon.

7. Committee Reports

7.1. Fellow Search – Walter Lachs Chair

- Mr Vladas V Leonas enquired regarding nomination for Fellow. Need 5 to 8 signatures. Missed 1<sup>st</sup> March 2008 deadline.

7.2. Membership Development – Bruce Poon Chair

- Bruce Poon tabled membership report.
- There has been a membership drop of about 15%.
- Membership report to be appended.

7.3. Professional Activities – David Burger Chair

- Two more events added to Event Calendar. Revised calendar will be issued 4 March 2008.
- Bruce Poon will be going to UW re Solar Technology seminar. Check re possible lecture on Power Quality(V. Gosbel)
- Engineering Week sponsorship requested by Engineers Australia.
- David Burger moved that \$1650 for Engineering Week be approved and Walter Lachs seconded. Motion passed.
- Antony Zaglas to reply and ask for invoice. Also advise EA that contact for Engineering Week is David Tien. Correspondence to David Tien.
- Possible events for Engineering Week – HV Lab visit, Transformer manufacturing plant visit, Site visits, etc.
- Engineering Week events in calendar(David Tien)

7.4. Educational Activities- Kim Chin Chair

- No Report.

7.5. Student Activities – Ali Hellany Chair

- Free student membership offer extended to 1 April 2008.
- Student Chair contact details are on the web.
- Formulate flyer for Student Paper contest. Deadline 1<sup>st</sup> week December.
- Motion to sponsor student attending GOLD/Student Congress in September(in parallel with Sections Congress) next meeting. Possible delegate Sarah Hakami.
- Lakshmi Narasimhan(UN) has moved to America. Need new contact.

7.6. Awards and Recognition - Ramutis Zakarevicius

- Proposal by Zak that best lecturer be presented with a certificate in memory of Jim Vasseleu. Presentation awarded for event each year. Certificate say to best DL/Lecturer. Suggestions included one certificate per speaker. Other suggestions welcome.

Rev: 0(Draft)

23 March 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp2 of 4

IEEE New South Wales Section  
**222<sup>nd</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> March 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

7.7. Nominations – Bruce Poon Chair

- Bruce Poon to work with Graeme Gwilliam re Nominations. Deadline is 15 May 2008. Need to try and advise for July Circuit as nominations must be advised to members at least six weeks prior to AGM.

7.8. Historian – David Burger Chair

- IEEE 125 Years old in 2009.
- Information has been uploaded to beta website.

7.9. Conference Coordinator

- David Tien proposed that Conferences be shown on website
- Generally only conferences NSW Section has involvement to be listed
- Other Conferences with Australia Council involvement
- Preliminary info on long term conferences

7.10. Webmaster

- There have been some expressions of interest in the webmasters position.
- Rob Menagon can do minor changes only.
- Need Officer/Committee info uploaded.
- Quotes expected for website

**Actions:**

- **David Burger to follow up**

8. Affinity Groups

8.1. GOLD Affinity Group – Alejandro Monroy Chair

- No report
- Need two functions for 2008.

8.2. Life Member Activities – John Robinson Chair

- No report
- Need two functions for 2008.

8.3. Women In Engineering(WIE) – Kim Chin Chair

- Acquisition of required signatures for application in progress.

9. Chapter Reports

9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - P Ananda Sanagavarapu chair

- No report
- Need soft copy of 2007 Chairs report

9.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair

- Awaiting signed petition regarding CSP/OCE joint chapter formation.
- Need soft copy of 2007 Chairs report(David Burger to attach to AGM minutes)
- There was a lecture last week at EA. David Burger to submit L31 form.

9.3. **Computer Chapter** - Kate Carruthers Chair.

- No report
- 2007 Chairs Report received.

Rev: 0(Draft)

23 March 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp3 of 4

IEEE New South Wales Section  
**222<sup>nd</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> March 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

- 9.4. Education Chapter – Mark Lee Chair
  - No report
  - Need soft copy of 2007 Chairs report.
- 9.5. Engineering in **M**edicine and **B**iology **S**ociety - Jeff Armistead Chair
  - No report
  - 2007 Chairs Report received.
- 9.6. Laser and **E**lectro **O**ptics/**C**ircuits and **S**ystems/**S**olid **S**tate **C**ircuits joint chapter - AP Graham Town Chair
  - No report
  - 2007 Chairs Report received.
- 9.7. Power **E**lectronics/**I**ndustry **A**pplications **S**ociety/**I**ndustrial **E**lectronics joint chapter - P Danny Soetanto Chair
  - No report
  - Printed copy of 2007 Chairs Report received.
- 9.8. Power Engineering **S**ociety chapter- John Robinson Chair
  - 2007 Chairs Report received.
  - Offer by Don Parker to give lecture on Distributed Generation topic later in year
  - John Robinson/Antony Zaglas to follow up
10. Meetings and Conferences
  - 10.1. Auswireless 2007 is over and awaiting Conference funds reconciliation.
  - 10.2. Oceans Conference 2010 organisation is progressing and subject to joint chapter formation regarding IEEE financial contribution. No progress.

**Actions:**

  - **Paperwork to be submitted.**
  - 10.3. IEEE Sections Congress 2008, Quebec City Canada 19-22 September 2008.
  - 10.4. ICITA 2008 23 – 26 June 2008 Hilton Cairns(IEEE Technical Sponsorship)
  - 10.5. IEEE Wireless Communications and Networking Conference 2010(WCNC 2010). March 2010 Sydney. Iain Collings possible General Chair. No NSW Sponsorship
  - 10.6. IEEE Signal Processing Society 2008 International Workshop on Multimedia Signal Processing October 8-10, 2008 Shangri-la Hotel Cairns, Queensland.  
<http://www.mmsp08.org/>
  - 10.7. 13<sup>th</sup> International Conference on Harmonics and Quality of Power(IHQP XIII). Formerly ICHPS – 28/09/2008 to 01/10/2008 at UW. <http://www.ichqp2008.org.au/>
11. Other Business
  - 11.1. Uncommitted Funds
    - Matter Carried Over
12. Next Meeting
  - 12.1. Next Section Executive Meeting will be at 7:00pm on the 7<sup>th</sup> April 2008 St Leonards TAFE.
13. Meeting Closed
  - 13.1. Meeting closed 8:50pm

Rev: 0(Draft)

23 March 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp4 of 4

**IEEE New South Wales Section**  
**223<sup>rd</sup> Executive Committee Meeting Minutes**

Monday 7<sup>th</sup> April 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

1. Attendance

David Burger-Chair  
David Tien  
Eddie Fong  
Graeme Gwilliam  
Antony Zaglas  
John Robinson

Bruce Poon  
Walter Lachs  
Ali Hellany  
Karu Esselle  
Ramutis Zakarevicius

Guests

Sarah Hakami

Apologies

Iain Collings  
Graham Town  
Kate Carruthers  
Faz Rahman  
Alejandro Monroy  
Sam Reisenfeld

Jeff Armitstead  
Nuala Ward  
Vassilios Agelidis  
Kim Chin  
Danny Soetanto  
Ananda Sanagavarapu

2. Agenda

Agenda accepted

3. Minutes of March 2008 Meeting

3.1. Corrections

- Antony Zaglas referred to email from Nuala Ward re March Minutes corrections.  
There is a misspelling of Cochlear at section 4.  
Graeme Gwilliam will not be listed as a signatory on the CCMT. Only outstanding action was for Ian Boyd to sign documents as I had both Davids sign the documents at the meeting  
David Burger advised at the meeting that IEEE NSW is unincorporated.
- David Burger advised that item 4.1 should read "IEEE Historical Centre has accepted the nomination of Cochlear for the Milestones Award"
- Walter Lachs moved minutes be accepted. Ali Hellany seconded the motion. The minutes were accepted.

3.2. Business Arising

- No business arising

4. Correspondence

4.1. David Burger referred to his email regarding sending delegates to 2008 IEEE Sections congress in Canada.

5. Treasurers Report

5.1. Nuala Ward asked her email of 3 April 2008 be recorded in the minutes(see 5.2 to 5.7 below)

5.2. draft L50 report was provided to IEEE HQ on 2<sup>nd</sup> March, 2008. This was submitted late due to lack of bank statements being available to the treasurer in time to complete the submission, particularly around the CCMT account.

5.3. Final L50 report was submitted to IEEE HW on 31<sup>st</sup> March, 2008. this was submitted without all of the information on the CCMT account, as this information was not provided to the treasurer in time, despite several requests to David Tien for information.

5.4. signatories for accounts have been updated for the online business account and the cheque account. Current signatories are Nuala Ward, David Burger and David Tien

5.5. signatory change was submitted for CCMT account. Commonwealth bank advised on 3/4/08 that a different form would be required. Once this is received, I will have to get the signatures again.

Rev: 0(Draft)

12 April 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp1 of 5

**IEEE New South Wales Section**  
**223<sup>rd</sup> Executive Committee Meeting Minutes**

Monday 7<sup>th</sup> April 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

- 5.6. No further activity on the BAS statements this month. I need details on who was previously the contact person for the BAS statement. Can this please be confirmed in the meeting.
- 5.7. I have requested netbank access to accounts, I should have this within the next week
- 5.8. David Burger has committed \$450 for sponsorship of Australian Institute of Energy event at UTS on 22nd April 2008.

6. Circuit Editor Report

- 6.1. March Circuit issued slightly behind schedule.
- 6.2. Lacked input from chapters
- 6.3. July Circuit deadline required 1<sup>st</sup> June
- 6.4. November Circuit deadline 1<sup>st</sup> October
- 6.5. Eddie Fong would like everyone in committee to contribute an article.

7. Committee Reports

- 7.1. Fellow Search – Walter Lachs Chair
- Walter Lachs advised that he was supporting the nomination of Prof. Stuart Wenham UNSW Photovoltaics for Fellow grade.
  - David Burger advised that there are 21 Fellows in NSW
- 7.2. Membership Development – Bruce Poon Chair
- Bruce Poon tabled membership report.
  - There have been two senior Membership enquiries.
  - There have been 163 student membership applications since January.
  - Membership report to be appended.
- 7.3. Professional Activities – David Burger Chair
- Two more events added to Event Calendar.
  - Engineers Australia is reviewing acceptance criteria for Joint Lecture Program. Rejected IEEE proposed lecture by patent attorneys Spruson & Ferguson.
  - David Burger has committed \$450 for sponsorship of Australian Institute of Energy event at UTS on 22<sup>nd</sup> April 2008.
  - Centrelink GOLD event for 3<sup>rd</sup> & 4<sup>th</sup> June will be added to events calendar.
  - Today's JLP meeting was cancelled. David Burger to cc Australia Council re JLP developments.
  - Graeme Gwilliam advised that the Tripartite agreement was up for renewal at the end of the year.
  - Substitute Lecture for 10 April 2008 arranged.
  - David Tien and Graeme Gwilliam to co-ordinate attendance at Engineering Week meetings and provide input for events in calendar
- 7.4. Educational Activities- Kim Chin Chair
- No Report.
- 7.5. Student Activities – Ali Hellany Chair
- Ali Hellany received about 85 applications for the free student membership which were forwarded to Bruce Poon. Send reference numbers and names rather than full forms. There is problem merging the form with student ID. There will be confirmation from IEEE via email followed by membership card.
  - Graeme Gwilliam advised that there were staff problems at IEEE and there was restructuring been undertaken.
  - Ali Hellany suggested paper contests for each university, say 2x\$500 per university with criteria posted on web page. Also some promotional material.
  - David Burger moved motion to sponsor Sarah Hakami to attend Student Congress in September. Budget \$4500 max. Karu Esselle seconded the motion. The motion

Rev: 0(Draft)

12 April 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section**  
**223<sup>rd</sup> Executive Committee Meeting Minutes**

Monday 7<sup>th</sup> April 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2  
was passed. Sarah Hakami to write report regarding the Student Congress on her return.

- 7.6. Awards and Recognition - Ramutis Zakarevicius
- Proposal by Zak that best lecturer be presented with a certificate/prize in memory of Jim Vasseleu. Presentation awarded for event each year.
  - Other suggestions included a Jim Vasseleu memorial Lecture each year.
  - Plaques need to be ordered as needed.
- 7.7. Nominations – Bruce Poon Chair
- Bruce Poon proposed that Graeme Gwilliam be chair of Nominations. Need to try and advise for July Circuit as nominations must be advised to members at least six weeks prior to AGM.
  - Walter Lachs moved that NSW Bylaws be rescinded and RAB regulations accepted at AGM.
  - John Robinson to look at the bylaws and RAB regulations and advise.
- 7.8. Historian – David Burger Chair
- No Progress.
- 7.9. Conference Coordinator
- Organisers of IEEE conferences to inform NSW Section
  - There will be a conference on Computer Information Technologies in July 2008 at UTS(Computer Society)
  - Nuala Ward has issued invoice for \$10,000 seed money for Auswireless 2007.
- 7.10. Webmaster
- David Burger advised that a webmaster has been found(Puerto Rico). Does not expect charge.

**Actions:**

- **David Burger to follow up**

8. Affinity Groups

- 8.1. GOLD Affinity Group – Alejandro Monroy Chair
- No report
  - Alejandro has not renewed his membership for 2008.
  - There will probably be three GOLD functions for 2008.
- 8.2. Life Member Activities – John Robinson Chair
- Nothing to report
  - Need two functions for 2008.
- 8.3. Women In Engineering(WIE) – Kim Chin Chair
- Acquisition of required signatures for application in progress.

9. Chapter Reports

- 9.1. Antennas and Propagation/Microwave Theory and Techniques joint chapter - P Ananda Sanagavarapu chair
- No report
  - Need soft copy of 2007 Chairs report
- 9.2. Communications and Signal Processing joint chapter - Dr Iain Collings Chair
- Meeting held with Communications Society chair.
  - Awaiting signed petition regarding CSP/OCE joint chapter formation.
  - Need soft copy of 2007 Chairs report(David Burger to attach to AGM minutes)

Rev: 0(Draft)

12 April 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section**  
**223<sup>rd</sup> Executive Committee Meeting Minutes**

Monday 7<sup>th</sup> April 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

- 9.3. Computer Chapter - Kate Carruthers Chair.
  - No report
- 9.4. Education Chapter – Mark Lee Chair
  - No report
  - Mark Lee is participating in e-learning programme
  - Need soft copy of 2007 Chairs report.
- 9.5. Engineering in Medicine and Biology Society - Jeff Armitstead Chair
  - No report
- 9.6. Laser and Electro Optics/Circuits and Systems/Solid State Circuits joint chapter - AP Graham Town Chair
  - No report
- 9.7. Power Electronics/Industry Applications Society/Industrial Electronics joint chapter - P Danny Soetanto Chair
  - No report
- 9.8. Power Engineering Society chapter- John Robinson Chair
  - Co-ordinating with Singapore re DL in October(27<sup>th</sup>)
  - EESA Conference 29-31 October 2008 at the Powerhouse Museum.
  - Email from Faz Rahman re Australian University Power Engineering Conferences to be forwarded by Graeme Gwilliam to committee.
  - Offer by Don Parker to give lecture on Distributed Generation topic later in year has been postponed to 2009.
  - John Robinson/Antony Zaglas to follow up
10. Meetings and Conferences
  - 10.1. Auswireless 2007 invoice for seed money of \$10,000 has been issued. Expect profit of \$5,000.
  - 10.2. Oceans Conference 2010-next meeting 27 May 2008. Application for joint chapter yet to be submitted.
  - 10.3. IEEE Sections Congress 2008, Quebec City Canada 19-22 September 2008. Discussion regarding sending chair and another member. Expect Section to carry full cost as there will be no subsidy to wealthy Sections(about \$4000 to \$4500 each delegate). Walter Lachs moved motion that two delegates be sent and Eddie Fong seconded. Motion passed.
  - 10.4. IEEE Wireless Communications and Networking Conference 2010(WCNC 2010). March 2010 Sydney listed in events calendar.
  - 10.5. IEEE Signal Processing Society 2008 International Workshop on Multimedia Signal Processing October 8-10, 2008 Shangri-la Hotel Cairns, Queensland.  
<http://www.mmsp08.org/>
  - 10.6. 13<sup>th</sup> International Conference on Harmonics and Quality of Power(IHQP XIII). Formerly ICHPS – 28/09/2008 to 01/10/2008 at UW. <http://www.ichqp2008.org.au/> listed in events calendar.
  - 10.7. IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP) 2013 [Bid]

11. Other Business

Rev: 0(Draft)

12 April 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section  
**223<sup>rd</sup> Executive Committee Meeting Minutes**

Monday 7<sup>th</sup> April 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

11.1. Uncommitted Funds

- Matter Carried Over

11.2. Section meeting for 13 October 2008 will be at the University of Western Sydney Rydalmere Campus at 6:00pm. Meeting room has been booked for 6:30pm.

12. Next Meeting

12.1. Next Section Executive Meeting will be at 7:00pm on the 5<sup>th</sup> May 2008 St Leonards TAFE.

13. Meeting Closed

13.1. Meeting closed 9:00pm

Rev: 0(Draft)

12 April 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp5 of 5



**IEEE New South Wales Section**  
**224<sup>th</sup> Executive Committee Meeting Minutes**

Monday 5<sup>th</sup> May 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

1. Attendance

David Tien-Chair  
Eddie Fong  
Graeme Gwilliam  
Antony Zaglas  
John Robinson  
Jeff Armitstead

Bruce Poon  
Kim Chin  
Ali Hellany  
Ramutis Zakarevicius

Guests

Sarah Hakami

Apologies

Sam Reisenfeld  
Nuala Ward

Karu Esselle  
David Burger

2. Agenda

Agenda accepted

3. Minutes of March 2008 Meeting

3.1.

- Eddie Fong moved minutes be accepted. Ali Hellany seconded the motion. The minutes were accepted.

3.2. Business Arising

- Graeme Gwilliam suggested that Past Chairs have ex officio status – voting rights
- David Tien suggested that committee members be required to attend at least four times per year. Executive members say maximum two absences a year. When not attending committee members to provide reports in writing.

4. Correspondence

4.1. Sarah Hakami email re student paper contest.

- Ali Hellany replied regarding student paper contest and tabled his proposal for consideration(to be attached). Budget \$3000 if 35% take-up. Unpublished original papers only. Papers can be published afterwards. Papers will not be published in IEEE publications.
- Suggestion by Graeme Gwilliam that each student present their paper at a JLT presentation.
- Proposal received favourable response. Proposal to be circulated to full committee for consideration at the next meeting.
- Ramutis Zakarevicius moved that proposal be accepted subject to minor amendments. Graeme Gwilliam seconded and the motion was passed.

4.2. Professor Roma Rinkeviciene visiting from Lithuania for Victorian Section 25<sup>th</sup> anniversary. Four topics to choose from Linear Motors, Mechatronics, WIE, Power Industry in the Soviet Union post deregulation. She will be visiting in late September and the expected contribution from the NSW Section is about \$800. Ramutis Zakarevicius moved invitation be extended to Professor Roma Rinkeviciene subject to details and Eddie Fong seconded the motion. The motion was passed.

4.3. DL Dragan Nicic info to be forwarded to Faz Rahman for consideration. Subject to feedback to be considered at June meeting.

5. Treasurers Report

5.1. Transfer of bank accounts postponed. David Tien to check Interest earned.

5.2. Nuala Ward email re BAS & Tax postponed till next meeting. David Tien to check with ATO and advise Nuala.

6. Circuit Editor Report

6.1. Submission of articles required by end month for July Circuit.

6.2. Eddie Fong would like all chapter chairs to submit content.

Rev: 0(Draft)

26 May 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section  
**224<sup>th</sup> Executive Committee Meeting Minutes**

Monday 5<sup>th</sup> May 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

- 6.3. Would like nominations advised for July.
- 6.4. AGM will be Friday 28 November 2008. Possible places Boronia, Stamford, Epping Club, other suggestions.
- 6.5. July Section meeting- David Tien extended invitation for committee to meet at Bathurst.
7. Committee Reports
- 7.1. Fellow Search – Walter Lachs Chair
- No Report
- 7.2. Membership Development – Bruce Poon Chair
- Bruce Poon to circulate May membership report.
  - There has been one senior Membership enquiry.
  - Amal Hanna SM application approved late last year or early this year.
  - 116 additional student members and 26 members
  - re same time last year there has been an increase of 34 members.
- 7.3. Professional Activities – David Burger Chair
- No Report.
  - Engineering week – Graeme Gwilliam to check with EA re meetings and co-ordinate with David Tien.
- 7.4. Educational Activities- Kim Chin Chair
- Kim Chin asked about canvassing Post Graduate students re taking up engineering.
  - Graeme Gwilliam advised that R10 has money for Educational Activities
- 7.5. Student Activities – Ali Hellany Chair
- See item 4.1 above, nothing further to add.
- 7.6. Awards and Recognition - Ramutis Zakarevicius
- Nothing further to report.
- 7.7. Nominations – Bruce Poon Chair
- Nominations for July Circuit.
- 7.8. Historian – David Burger Chair
- No Report.
- 7.9. Conference Coordinator
- Cairns Convention Centre function email – eight attending
  - Conference Publication Co-Ordination List started. Sub committee to be set up.
  -
- 7.10. Webmaster
- No Report.
- Actions:**
- ***David Burger to follow up appointment of webmaster***
8. Affinity Groups
- 8.1. GOLD Affinity Group – Alejandro Monroy Chair
- No report
- 8.2. Life Member Activities – John Robinson Chair
- In progress.
- 8.3. Women In Engineering(WIE) – Kim Chin Chair
- National WIE committee looking at activities. Six signatures obtained.
- NOTE: David Tien departed and Graeme Gwilliam assumed the Chair
- Kim Chin advised that she is going to the USA 16 June for one week for an American Society for Engineering Education(ASEE) Conference. She requested sponsorship for the trip. Graeme Gwilliam suggested \$1000.
  - Eddie Fong moved that funding be provided and Bruce Poon seconded the motion. The motion was passed.

Rev: 0(Draft)

26 May 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp2 of 3

**IEEE New South Wales Section**  
**224<sup>th</sup> Executive Committee Meeting Minutes**

Monday 5<sup>th</sup> May 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

9. Chapter Reports

9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - P Ananda Sanagavarapu chair

- No report

9.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair

- No report

9.3. **Computer Chapter** - Kate Carruthers Chair.

- No report

9.4. **Education Chapter** – Mark Lee Chair

- No report

9.5. **Engineering in Medicine and Biology Society** - Jeff Armitstead Chair

- AGM organised for first technical meeting
- Web site to be reactivated
- Carolyn MacGregor gone to Canada on 2-3 year sponsored chairs position
- Will run two or three technical meetings

9.6. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter - AP Graham Town Chair

- No report

9.7. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter - P Danny Soetanto Chair

- No report

9.8. **Power Engineering Society** chapter- John Robinson Chair

- Planning distinguished lecture visit for late October. Details to be sorted out.

10. Meetings and Conferences

10.1. Auswireless 2007 invoice for seed money of \$10,000 has been issued. Awaiting payment of seed money and profit share.

10.2. IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP) 2013 [Bid]

10.3. Oceans Conference 2010- John Robinson to check with Brian Ferguson re chapter formation.

11. Other Business

11.1. Uncommitted Funds

- Matter Carried Over

12. Next Meeting

12.1. Next Section Executive Meeting will be at 7:00pm on the 2<sup>nd</sup> June 2008 St Leonards TAFE.

12.2. July meeting see item 6.5 above.

13. Meeting Closed

13.1. Meeting closed 9:03pm

Rev: 0(Draft)

26 May 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp3 of 3

**IEEE New South Wales Section**  
**225<sup>th</sup> Executive Committee Meeting Minutes**

Monday 2<sup>nd</sup> June 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

1. Attendance

David Burger-Chair  
Karu Esselle  
David Tien  
Eddie Fong  
Graeme Gwilliam  
Antony Zaglas  
John Robinson

Nuala Ward  
Candice Gillmore  
Bruce Poon  
Kim Chin  
Walter Lachs  
Jeff Armitstead

Guests

Sarah Hakami

Apologies

Graham Town  
Ramutis Zakarevicius  
Ali Hellany

2. Agenda

Agenda accepted

3. Minutes of May 2008 Meeting

3.1.

- Correction - Walter Lachs apology to be added
- Correction –date to be April in lieu of March for Item 3.
- John Robinson moved minutes be accepted. Eddie Fong seconded the motion.  
The minutes were accepted.

3.2. Business Arising

- No business arising.

4. Correspondence

4.1. No correspondence

5. Treasurers Report

- 5.1. Rebate cheque received from HQ
- 5.2. \$10,000 seed money from Auswireless 2007 received.
- 5.3. Profit share from Auswireless not received yet.
- 5.4. Com Bank Cash Management Account forms to be signed Friday.
- 5.5. David Tien gave Nuala Ward statements for bank accounts
- 5.6. Nuala Ward expects to be able to issue updated status 3 June 2008.

6. Circuit Editor Report

- 6.1. Articles received from EMBS and LEOS chapters for July Circuit.
- 6.2. Eddie Fong would like all chapter/group chairs to submit content.
- 6.3. Nominations request deadline August 2008.
- 6.4. Membership article by Bruce Poon.
- 6.5. Walter has submitted article
- 6.6. David Burger suggested Kim Chin provide article(possibly requesting support for WIE petition)

7. Committee Reports

7.1. Fellow Search – Walter Lachs Chair

Rev: 1(Confirmed)

9 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp1 of 5

**IEEE New South Wales Section**  
**225<sup>th</sup> Executive Committee Meeting Minutes**

Monday 2<sup>nd</sup> June 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

- Nothing to Report
- 7.2. Membership Development – Bruce Poon Chair
  - Bruce Poon tabled Membership Report.
  - Slight increase in membership since last month
  - 259 Graduate Student Members
  - 161 Student Members
  - 2300 Active Members
  - Two further Senior Member enquiries(Eddie Fong and David Tien). Also Ali Hellani and Kim Chin to be added. Also Sam Reisenfeld should be considered for nomination by Section.
- 7.3. Professional Activities – David Burger Chair
  - Engineering week – Graeme Gwilliam asked EA re meetings but had no reply.
  - Draft of Events in July Circuit
  - 2008 Events Calendar is full and working on 2009 calendar
  - Moving Events to Google Calender.
  - There have been some problems with EA regarding acceptability of events
  - Tripartite agreement up for renewal at years end. Possibility of having to go it alone.
- 7.4. Educational Activities- Kim Chin Chair
  - Kim Chin going to Pittsburgh 16 June 2008 for Engineering Education Conference.
  - Prof Roger Hadgraft from the Australian Association for Environmental Education(AAEE) has suggested that he and Kim meet at Pittsburgh after the conference and discuss WIE and Women in AAEE.
  - Karu Esselle giving talk on Electronics Education, with EA, at Hornsby Girls High
- 7.5. Student Activities – Ali Hellany Chair
  - Criteria to be added to Ali Hellany's proposal as per link at bottom of proposal.
  - Prizes to be shared only between student authors not supervisors. Students must be the primary authors.
  - Charles Sturt and Armidale(IT) Universities to be added to list.
  - Final Vote on proposal next meeting.
  - Names:- Max Simons for Undergraduates  
Jim Vasseleu for Post Graduates  
Include some background information for each of the above honoured. David Burger to provide some background information.
- 7.6. Awards and Recognition - Ramutis Zakarevicius
  - No Report.
- 7.7. Nominations – Bruce Poon Chair
  - Call for Nominations in July Circuit for 2009 committee.
  - All present indicated their interest in participating on 2009 committee.
- 7.8. Historian – David Burger Chair
  - Minor tweaks to history document.
  - Beta testing of HQ History Portal
- 7.9. Conference Coordinator
  - Cairns Convention Centre function this Friday
  - The Sydney Convention Centre has contacted David Tien and asked for assistance in designing a bidding document for IEEE Conferences
  - David Tien looking at Conference Paper review process
  - David Tien arranged a meeting with a few people from Academic Alliance International(AAI)

Rev: 1(Confirmed)

9 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section**  
**225<sup>th</sup> Executive Committee Meeting Minutes**

Monday 2<sup>nd</sup> June 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

- 7.10. Webmaster
- Secured web master in Puerto Rico.
  - Joomla content manager adopted
  - New web page posted. Content needs to be added.
8. Affinity Groups
- 8.1. GOLD Affinity Group – Alejandro Monroy Chair
- Alejandro has not renewed his IEEE membership
  - Two GOLD events have already been held this year
- 8.2. Life Member Activities – John Robinson Chair
- No events planed as yet.
- 8.3. Women In Engineering(WIE) – Kim Chin Chair
- WIE petition needs to be lodged.
9. Chapter Reports
- 9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - Ananda Sanagavarapu chair
- No report
- 9.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair
- John Robinson has signed petition(7 signatures) for Joint Communications, Signal Processing and Oceanic Engineering Society chapter
  - Graeme Gwilliam put the motion:  
“The NSW Section supports the joint chapter formation of the Oceanic Engineering Society and Communications and Signal Processing Society chapters in New South Wales.”  
Nuala Ward seconded the motion.  
The motion was carried unanimously.
- 9.3. Computer Chapter - Kate Carruthers Chair.
- No report
- 9.4. Education Chapter – Mark Lee Chair
- One event held and L31 form lodged.
- 9.5. **Engineering in Medicine and Biology Society** - Jeff Armitstead Chair
- Jeff Armitstead supplied article for Circuit
  - Web site is up and running
  - In the process of organising meeting at ANSTO
  - EMBC 2013 conference bid. Melbourne bid is significantly ahead of NSW and they have NZ onboard. Consult with Carolyn re prospects and as to whether to back Melbourne as there are other strong bids(Korea)
  - Decision late 2008 or early 2009.
- 9.6. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter - AP Graham Town Chair
- Report by Graham Town tabled by Tony Zaglas and is appended below.
  - Report

Rev: 1(Confirmed)

9 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section  
**225<sup>th</sup> Executive Committee Meeting Minutes**  
Monday 2<sup>nd</sup> June 2008 at 7:00pm  
Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2  
**Committee**

No nominations were received for the positions of Chairperson or secretary at the 2007 Annual General Meeting, therefore the committee remains unchanged:

<i>Chairman:</i>	Professor Graham Town
<i>Secretary:</i>	Mr Stephen Hanham

### **Technical Meetings**

The NSW Chapter of LEOS/CAS/SSC has been fortunate to continue working with other active Chapters around Australia to bring more IEEE Distinguished Lecturers to Australia. Technical meetings to date in 2008 with Distinguished Lecturers were as follows:

28<sup>th</sup> February  
Professor Masaya Notomi, NTT Basic Research Laboratories  
Controlling Light by Photonic Crystals

14th April  
Professor John O'Brien, University of Southern California  
Photonic Crystal Devices

Additionally, the Chapter will be hosting another IEEE Distinguished Lecturer, Professor John Dudley from the Institute FEMTO CNRS, mid-June who will be speaking on optical supercontinuum generation. Details will be emailed to members when confirmed – please keep your membership profile and contact details up to date at  
[http://www.ieee.org/web/membership/join/update\\_profile.html](http://www.ieee.org/web/membership/join/update_profile.html).

Please feel free to contact me for details of future technical meetings we are planning. Proposals from members for technical meetings are always welcome.

- 9.7. **Power Electronics/Industry Applications Society/Industrial Electronics joint chapter - P Danny Soetanto Chair**
  - No report
- 9.8. **Power Engineering Society chapter- John Robinson Chair**
  - John Robinson advised he is still trying to arrange a distinguished lecturer visit for late October. There are three possible names.
- 10. Meetings and Conferences
  - 10.1. Auswireless 2007 – received cheque for seed money of \$10,000. Awaiting funds reconciliation and payment of profit share.
  - 10.2. Oceans Conference 2010- John Robinson advised that Brian Ferguson has returned signed petition for joint chapter formation. John Robinson is trying to contact Iain Colings re signing of petition.

Rev: 1(Confirmed)

9 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp4 of 5

IEEE New South Wales Section  
**225<sup>th</sup> Executive Committee Meeting Minutes**

Monday 2<sup>nd</sup> June 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 2

- 10.3. Graeme Gwilliam moved that Eddie Fong be included in contingent to go to Sections Congress. Kim Chin seconded the motion. The meeting accepted the proposal.

Contingent    Sarah Hakami  
                  David Burger  
                  David Tien  
                  Eddie Fong

- 10.4. ICASSP Conference – No further details

11. Other Business

- 11.1. AGM will be on Friday 28 November 2008.

1<sup>st</sup> preference is Crowne Plaza Parramatta

2<sup>nd</sup> preference Stanford Grand Epping Rd

3<sup>rd</sup> Preference Epping Club(RSL)

\$30 subsidised cost

\$400 for gifts

Eddie Fong moved and Jeff Armitstead seconded. Motion passed.

- 11.2. Bylaws to be reviewed with a view to adopting region bylaws.

12. Next Meeting

- 12.1. Next Section Executive Meeting will be at 7:00pm on the 7<sup>th</sup> July 2008 at the Sydney Mechanics School of Arts, Level 1, 280 Pitt St Sydney.

13. Meeting Closed

- 13.1. Meeting closed 9:00pm

Rev: 1(Confirmed)

9 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp5 of 5



IEEE New South Wales Section  
**226<sup>th</sup> Executive Committee Meeting Minutes**  
Monday 7<sup>th</sup> July 2008 at 7:00pm  
Sydney Mechanics School of Arts, 280 Pitt St Sydney,  
Carmichael Room, Level 1

1. Attendance

David Tien-Acting Chair  
Nuala Ward  
Graeme Gwilliam  
Antony Zaglas  
John Robinson

Candice Gillmore  
Bruce Poon  
Ramutis Zakarevicius  
Walter Lachs

Guests

Fuat Acar  
Martin Sanders  
Earl Kohler

Apologies

David Burger  
Graham Town  
Jeff Armitstead  
Ali Hellany  
Ananda Sanagavarapu

Eddie Fong  
Karu Esselle  
Kim Chin  
Kate Carruthers

2. Agenda

2.1. Agenda accepted

3. Minutes of June 2008 Meeting

3.1. June Minutes

- Walter Lachs moved that minutes be accepted and David Tien seconded the motion. The minutes were accepted.
- Correction –date to be April in lieu of March for Item 3.
- John Robinson moved minutes be accepted. Eddie Fong seconded the motion. The minutes were accepted.

3.2. Business Arising

- No business arising.

3.3. Antony Zaglas advised meeting regarding conflict in July 2007 minutes item 5.6 raised by Nuala Ward. Action statement should read

**“Rob Curtis to lodge Yearly GST return forms”**

4. Correspondence

4.1. Lunchtime function hosted by Sydney Convention Centre.

5. Treasurers Report

- 5.1. Ian Boyd is away. He will sign transfer forms at first opportunity.
- 5.2. Cap on Prof. Roma Rinkeviciene expenses contribution to \$800.
- 5.3. David Burgers airfare to Sections Congress just under \$4000.
- 5.4. Eddie Fong Air Fare to Sections Congress \$3300.
- 5.5. Graeme Gwilliam suggested budget be prepared for 2008 due to large expenditures.
- 5.6. Graeme Gwilliam also raised the issue of a register of assets.
- 5.7. Engineers Australia invoice for Joint Lecture Program needs to be clarified.
- 5.8. Graeme Gwilliam moved that report be accepted and David Tien seconded the motion. Motion passed.

6. Circuit Editor Report

Rev: 0(Draft)

21 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp1 of 4

IEEE New South Wales Section  
**226<sup>th</sup> Executive Committee Meeting Minutes**  
Monday 7<sup>th</sup> July 2008 at 7:00pm  
Sydney Mechanics School of Arts, 280 Pitt St Sydney,  
Carmichael Room, Level 1

- Report by Eddie Fong:  
Sorry, I am unable to attend this evenings meeting.  
I have the following to report and also seek the Committee for agreement and approval:
  1. Circuit - Printed colour for 90 pieces at about \$550 and send to those requested for Circuit by post and also those members that do not have email address.
  2. The next Circuit will be Nov 2008 edition and I will require all to provide any articles and input from now. The deadline for the submission is 30 Sept 2008.
  3. AGM is now negotiated with Crowne Plaza with Parramatta for a function from 6pm till midnight to house for 5 tables max. The cost for 3 course dinner at \$59 and room at \$450, i.e. for 50 attendees will cost us \$3.4k and plus drink based on consumption (estimate for \$1k max for budget purposes). Car parking reduced from \$15 to \$10 and a discounted hotel bed room rate at \$160 per night. Please agree to proceed.
  4. If we need a separate room for the Chapter meetings and AGM, i.e. from 6pm to 8pm from the dining room, then we will need to pay for \$1.2k for this separate room. Please approve this if you need this. (I believe, we should be able to conduct our Chapter meetings and AGM at the dining table setting room.). Please advise.
  5. For the actual choice of food selection for AGM dinner, I will table it for decision at the next meeting.
  6. For the AGM pen gift, to engrave IEEE Australia onto the pen for 100 pieces (minimum) will cost us about \$470 and 251 pieces for \$990. As the smaller the volume of purchase, the more expensive the unit cost due to the engraving and its set up costs. Please confirm the choice of volume to proceed with the order.
  7. For the Section Congress, I have book my flight at a cost of \$3,349 (included taxes) taking Air Canada touching down at Quebec City on 18 Sept at 7:49pm and hotel at a cost of C\$930 inclusive of taxes.I need your confirmation for item 3, 4 and 6 by 10 July to confirm with the vendors.

7. Committee Reports

- 7.1. Fellow Search – Walter Lachs Chair
  - Nothing to Report
- 7.2. Membership Development – Bruce Poon Chair
  - Bruce Poon tabled Membership Report.
  - Membership 2320.
  - Two Senior Member enquiries.
  - Section to nominate David Tien for senior membership. David burger needs to endorse and two referees.
  - There are several senior membership applications from members of the committee that need to be lodged/processed.
- 7.3. Professional Activities – David Burger Chair
  - No report.
- 7.4. Educational Activities- Kim Chin Chair
  - No Report
- 7.5. Student Activities – Ali Hellany Chair
  - Student paper contest to be addressed at next meeting. Need to discuss with Ali Hellany details and any suggestions.
  - Antony Zaglas indicated that in reply to an email from Ali Hellany he suggested that academics in committee should consider what if any checking of papers/criteria should take place.
- 7.6. Awards and Recognition - Ramutis Zakarevicius
  - Nothing to Report.
- 7.7. Nominations – Bruce Poon Chair
  - In hand, to be advised.

Rev: 0(Draft)

21 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section  
**226<sup>th</sup> Executive Committee Meeting Minutes**  
Monday 7<sup>th</sup> July 2008 at 7:00pm  
Sydney Mechanics School of Arts, 280 Pitt St Sydney,  
Carmichael Room, Level 1

- 7.8. Historian – David Burger Chair
  - No Report.
- 7.9. Conference Coordinator-David Tien Chair
  - David Tien trying to foster a closer relationship with agencies. Had lunch with Cairns Convention Centre.
  - Will have a lunch time meeting with Sydney Convention Centre.
- 7.10. Webmaster
  - Antony Zaglas to send committee link to Google calendars
  - Fuat Acar indicated he will be available for the Webmaster position in 2009 provided the work was less than about one hour per month.
- 8. Affinity Groups
  - 8.1. GOLD Affinity Group – Alejandro Monroy Chair
    - No Report
    - Two GOLD events have already been held this year
  - 8.2. Life Member Activities – John Robinson Chair
    - John Robinson proposed that AGM be a life members function. Also was considering something for October. There are about 50 life members.
  - 8.3. Women In Engineering(WIE) – Kim Chin Chair
    - Email sent out by David Burger to 157 female members.
    - Antony Zaglas advised that the new MAG manual stated that only six signatures were required to form an Affinity Group.
- 9. Chapter Reports
  - 9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - Ananda Sanagavarapu chair
    - No report
  - 9.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair
    - No Report
  - 9.3. **Computer Chapter** - Kate Carruthers Chair.
    - No report
  - 9.4. **Education Chapter** – Mark Lee Chair
    - No Report.
  - 9.5. **Engineering in Medicine and Biology Society** - Jeff Armitstead Chair
    - ANSTO visit and EMBS AGM were organised for 18 July 2008.
  - 9.6. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter - AP Graham Town Chair
    - No Report.
  - 9.7. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter - P Danny Soetanto Chair
    - No report

Rev: 0(Draft)

21 July 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp3 of 4

IEEE New South Wales Section  
**226<sup>th</sup> Executive Committee Meeting Minutes**  
Monday 7<sup>th</sup> July 2008 at 7:00pm  
Sydney Mechanics School of Arts, 280 Pitt St Sydney,  
Carmichael Room, Level 1

- 9.8. **Power Engineering Society** chapter- John Robinson Chair
- John Robinson advised he is organising for a distinguished lecturer visit(Cheryl Warren VP Asset Strategy and Investment Planning US National Grid) for late October.
10. Meetings and Conferences
- 10.1. Auswireless 2007 – received cheque for seed money of \$10,000. Need copy of finance report from UTS.
- 10.2. Oceans Conference 2010- John Robinson advised that Brian Ferguson has returned signed petition for joint chapter formation. John Robinson will lodge petition this weekend.
- 10.3. Sections Congress.  
Two Air Fairs Booked so far: David Burger(\$4000)  
Eddie Fong(\$3300)
- 10.4. ICASSP Conference – No further details
- 10.5. Remote Sensing conference organisers would like IEEE NSW Technical sponsorship. David Tien to send details.
11. Other Business
- 11.1. AGM will be on Friday 28 November 2008.
- David Tien to talk to Eddie Fong regarding budget for AGM and minimum numbers. Do we need to pay for 50 even if there is less? Is there a minimum number? Last year we had just over 20 for the dinner comprising mostly committee members. The most we had in recent times was about 45 at Killara. Also if we need a separate room for the chapter and Section AGMs at an additional cost of \$1200. What is the latest we can make booking and by what date must we advise numbers for dinner?
  - Walter Lachs moved that \$470 for 100 pens be approved and Bruce Poon seconded. The motion was passed.
- 11.2. Review of NSW Section Bylaws progressing.
- 11.3. Graeme Gwilliam advised that Regional Activities Director Celia's mother had passed away and a message of condolence will be sent.
- 11.4. David Burgers email re SAMIEEE- Bruce Poon advised that new interface was more powerful. Any one requiring info on SAMIEEE to talk to Bruce.
12. Next Meeting
- 12.1. Next Section Executive Meeting will be at 7:00pm on the 4<sup>th</sup> August 2008 at the Northern Sydney Institute of TAFE St Leonards.
13. Meeting Closed
- 13.1. Meeting closed 8:45pm

IEEE New South Wales Section  
**227<sup>th</sup> Executive Committee Meeting Minutes**

Monday 4<sup>th</sup> August 2008 at 7:00pm

North Sydney TAFE, Library, meeting room 3 – St Leonards, NSW 2065

---

1. Attendance

David Tien	
Nuala Ward	Eddie Fong
David Burger - Chair	Sarah Hakami
Graeme Gwilliam	
John Robinson	
Bruce Poon	
Ramutis Zakarevicius	
Walter Lachs	
Karu Esselle	

Guests

Chatanya Manapragada (UNSW Student Branch)

Apologies

Graham Town	Kim Chin
Antony Zaglas	Kate Carruthers
Jeff Armitstead	Candice Gilmore
Ali Hellany	
Ananda Sanagavarapu	

2. Agenda

2.1. Agenda accepted

3. Minutes of July 2008 Meeting

3.1. July Minutes, no changes or updates flagged.

3.2. Business Arising

- No business arising.

4. Correspondence

4.1. Lunch invite to IEEE committee by the Sydney Convention and Visitors Bureau to David Tien.

4.2. Section Congress correspondence regarding issues to be raised at Caucus.

5. Treasurers Report

5.1. Engineers Australia invoice received for Joint lecture program in 2007. Moved for payment by Nuala, 2<sup>nd</sup> by Walter, carried.

5.2. Statement of accounts attached below.

**Income 2008**

[Contents page](#)

						tot invoiced
						\$ 23,717.95
Inv #	Date	Co./Last Name	Cust PO	Description	clear	Tot \$ Inc-GST
1	1/02/2008	IEEE EMBS		EMBS member incentive	y	\$ 110.88
2	28/05/2008	IEEE HQ		Section Rebate 2008	y	\$ 13,607.07
3	28/05/2008	UTS Sydney		Auswireless conf seed fund	y	\$ 10,000.00
4						

7 August 2008

**IEEE New South Wales Section  
227<sup>th</sup> Executive Committee Meeting Minutes**

Monday 4<sup>th</sup> August 2008 at 7:00pm

North Sydney TAFE, Library, meeting room 3 – St Leonards, NSW 2065

**Expenses 2008**

<b>Grand Tot YTD INCL GST</b>	<b>\$ 17,537.91</b>
-------------------------------	---------------------

<b>Cheques not yet cleared</b>	<b>\$ 3,753.33</b>
--------------------------------	--------------------

Date	Supplier	Section/Cha	Supplier	Inv #	Description	Tot \$
23/01/2008	DJ Aboriginal Corporation	Sect		2175	expense	\$ 265.61
23/01/2008	APC	Sect		3268	expense	\$ 484.33
20/02/2008	Commonwealth bank - transaction list	sect			expense	\$ 2.50
9/03/2008	D.Burger - PO box & mtg with Don black	sect			expense	\$ 197.60
16/03/2008	N.Ward - stationary, stamps	sect			expense	\$ 10.55
2/04/2008	APC	sect		3351	expense	\$ 133.12
15/04/2008	B.Poon - postage	sect			expense	\$ 3.00
15/04/2008	B.Poon - free student membership	sect			expense	\$ 474.59
18/04/2008	APC	sect		3385	expense	\$ 372.81
19/04/2008	DrPhil Watts - training seminar	sect		4185	expense	\$ 200.00
19/04/2008	Engineers Australia - engineering week 2008	sect		01-122	expense	\$ 1,650.00
20/05/2008	B.Poon - postage	sect			expense	\$ 1.00
20/05/2008	B.Poon - free student membership	sect			expense	\$ 856.88
20/05/2008	B.Poon - free student membership	sect			expense	\$ 456.16
28/05/2008	Commonwealth bank - forex fee for IEEE HQ cheque	sect			expense	\$ 10.00
2/06/2008	N.Ward - stationary, stamps	sect			expense	\$ 16.95
4/06/2008	uts union - GOLD mtg at UTS	sect			expense	\$ 499.62
7/07/2008	true blue printing - printing circuit	sect			expense	\$ 517.00
7/07/2008	APC - service fees - apr-jun 08	sect			expense	\$ 289.86
15/07/2008	Eddie Fong - flight to Canada - sections congress	sect			expense	\$ 3,349.00
4/08/2008	Eddie Fong - AGM deposit - Crowne Plaza Paramatta	sect			expense	\$ 628.75
4/08/2008	Eddie Fong - Pen gift deposit - Awards & More	sect			expense	\$ 235.40
4/08/2008	Eddie Fong - Travel Insurance for Sections Congress - Suresa	sect			expense	\$ 186.75
4/08/2008	IEEE Australia Council - 2007 AC levy	sect			expense	\$ 1,144.00
4/08/2008	Engineers aust - 2007 joint electrical programme	sect		189	expense	\$ 1,500.00
17/06/2008	Flight centre - D.Burger flight to Canada sections congress	sect			expense	\$ 3,994.00
4/08/2008	B.Poon - free student membership	sect			expense	\$ 13.43
4/08/2008	B.Poon - postage	sect			expense	\$ 1.00
6/08/2008	SMSA - room hire July meeting	sect		5113	expense	\$ 44.00

**6. Circuit Editor Report**

- Report by Eddie Fong

The deadline for the next CIRCUIT is 28 September for the 1<sup>st</sup> November issue. All members of the committee are invited to contribute an article or a presentation to this issue, including those committee members who may not have a formal portfolio.

**7. Committee Reports**

**7.1. Fellow Search – Walter Lachs Chair**

- Nothing to Report

**7.2. Membership Development – Bruce Poon Chair**

A life senior member transfer from the US was accomplished, Welcome to Martin Sanders.

**IEEE New South Wales Section**  
**227<sup>th</sup> Executive Committee Meeting Minutes**

Monday 4<sup>th</sup> August 2008 at 7:00pm

North Sydney TAFE, Library, meeting room 3 – St Leonards, NSW 2065

---

<b>Member Type</b>	<b>31/07/2007 Number</b>	<b>31/07/2008 Number</b>	<b>over past year %</b>
Active member	2330	2365	1.5%
Active member	2176	2252	3.5%
Active Life member	52	50	-3.8%
Active senior member	156	161	3.2%
Active Graduate Student member		230	
Active student member	350	150	8.6%
Active female member	161	160	-0.6%

<b>Student Branch</b>	<b>31/07/2007 Number</b>	<b>31/07/2008 Number</b>	
Charles Sturt University	18	9	-50.0%
Macquarie University	27	21	-22.2%
Sydney University	58	51	-12.1%
University of New South Wales	132	127	-3.8%
University of Technology Sydney	46	29	-37.0%
University of Wollongong	23	26	13.0%
Western Sydney University of Nepean	14	17	21.4%
Total Student	318	280	-11.9%

<b>Chapter</b>	<b>31/07/2007 Number</b>	<b>31/07/2008 Number</b>	
Antennas & Propagation / Microwave Theory & Techniques	77	71	-7.8%
Communication / Signal Processing	437	447	2.3%
Computer	788	750	-4.8%
Education	15	12	-20.0%
Engineering in Medicine and Biology	79	70	-11.4%
Industrial Electronics / Power Electronics / Industrial Applications	87	94	8.0%
Lasers and Electro-Optics / Circuit and Systems / Solid State Circuit	82	86	4.9%
Power Engineering	130	134	3.1%
Total Active Chapter members	1695	1664	-1.8%

**7.3. Professional Activities – David Burger Chair**

- The 2008 calendar is full booked, and there is no further opportunity for IEEE to contribute to joint activities this year. It is recommended this be placed on hold until 2009. Our IEEE master events Calendar updates being done by Pankaj Mehta (Wollongong). Calendar link is here →

<http://www.google.com/calendar/embed?src=k3hz%40ieee.org&ctz=Australia/Sydney>

**7.4. Educational Activities- Kim Chin Chair**

- No Report

**7.5. Student Activities – Ali Hellany Chair**

- No Report, but query regarding possible robotics competition sponsorship by the UNSW.

**7.6. Awards and Recognition - Ramutis Zakarevicius**

- No Report

**7.7. Nominations – Bruce Poon Chair**

7 August 2008

IEEE New South Wales Section  
**227<sup>th</sup> Executive Committee Meeting Minutes**

Monday 4<sup>th</sup> August 2008 at 7:00pm

North Sydney TAFE, Library, meeting room 3 – St Leonards, NSW 2065

---

- One member has expressed interest in participating in the '09 committee from Country NSW (CSU Wagga).
- 7.8. Historian – David Burger Chair
- Much of the older IEEE Australia section history has been used as a beta trial of the Region 10 history portal project being managed from UWA. We have also contributed a major submission to the IEEE Region 10 history publication.
  - Copy of weblink to the R10 beta history site requested. Located here -> [http://ewh.ieee.org/r10/w\\_australia/history/v2/](http://ewh.ieee.org/r10/w_australia/history/v2/)
- 7.9. Conference Coordinator-David Tien Chair
- The CSU and Department of Lands are cooperating in a conference. More information to come.
- 7.10. Webmaster
- Broadband access is now on line, and am trying to get the Joomla application working on my laptop. Full website content update should be underway when this happens. I may have to talk to an IT guy to get my laptop sorted out.
8. Affinity Groups
- 8.1. GOLD Affinity Group – Chair
- Gold has had two function this year, and in the absence of a chair at this time, we would like to see someone step up and take up this vacancy.
- 8.2. Life Member Activities – John Robinson Chair
- Planning to assign the AGM dinner as a LM function.
- 8.3. Women In Engineering(WIE) – Kim Chin Chair
- No Report on formation status.
9. Chapter Reports
- 9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - Ananda Sanagavarapu chair
- No report
- 9.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair
- No Report
- 9.3. Computer Chapter - Kate Carruthers Chair.
- No report
- 9.4. Education Chapter – Mark Lee Chair
- No Report.
- 9.5. **Engineering in Medicine and Biology Society** - Jeff Armitstead Chair

The ANSTO event was very well received and attended with 50 people on the tour. We also had a very interesting talk by Dr. Rob Weiner on radiopharmaceutical research at ANSTO. This Thurs-Fri sees a workshop at UNSW CHI (Centre for Health Informatics) as advertised on our website and the NSW Section Google calendar.



**IEEE New South Wales Section**  
**227<sup>th</sup> Executive Committee Meeting Minutes**

Monday 4<sup>th</sup> August 2008 at 7:00pm

North Sydney TAFE, Library, meeting room 3 – St Leonards, NSW 2065

---

After the workshop on Friday we are re-running the AGM (no quorum last time). Also, on Thursday I will visit Melbourne to take part in the practice run-through of the EMBC 2013 bid for Melbourne. I am visiting Vancouver later this month at EMBC 2008 as part of the bid committee. A strong part of the bid is built around satellite workshops and technical visits in NSW, so a win for us despite not bidding for the conference itself.

- 9.6. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter - AP Graham Town Chair
  - The joint chapter has now been formally sanctioned on 28 July 2008.
- 9.7. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter - P Danny Soetanto Chair
  - No report
- 9.8. **Power Energy Society** chapter- John Robinson Chair  
Visit by Safir Raman from Virginia Tech is planned. PES are planning a 125 year anniversary activity with a historical information request.
10. Meetings and Conferences
  - 10.1. Auswireless 2007 – Need copy of the final finance report from UTS. A preliminary report was tabled by Johnson earlier this year.
  - 10.2. Oceans Conference 2010. The joint chapter formation is being run by John Robinson and apparently progressing.
  - 10.3. Sections Congress.  
All members participating in this have things in hand.
  - 10.4. Remote Sensing conference organisers would like IEEE NSW Technical sponsorship. David Tien to send details.
11. Other Business
  - 11.1. AGM will be on Friday 28 November 2008. Discount parking is available when mentioning the IEEE event. RSVP will be 28 October.
  - 11.2. No one has run with the need to manage the Professor Roma visit being arranged by IEEE Victoria. In light of this, it was agreed by the committee to withdraw from sponsorship of Professor Roma, as nobody can support her in NSW. Possible follow up by Zak.
  - 11.3. Review of NSW Section Bylaws progressing.
  - 11.4. Interest in a member benefit program.
  - 11.5. The AGM Pen engraving discussed, plan in place to move forward on this (Eddie).
  - 11.6. UNSW IEEE ran a MatLab presentation with 220 people attending.
  - 11.7. Sarah has expressed interest in participating in an Industry day / Job fair type of activity. She will contact key individuals in the committee directly.
12. Next Meeting
  - 12.1. Next Section Executive Meeting will be at 7:00pm on the 1st September 2008 at the Northern Sydney Institute of TAFE St Leonards. Apologies in advance are Graeme Gwilliam & Nuala Ward.
13. Meeting Closed
  - 13.1. Meeting closed 20:40pm

7 August 2008

**IEEE New South Wales Section**  
**229<sup>th</sup> Executive Committee Meeting Minutes**

Monday 13<sup>th</sup> October 2008 at 6:30pm

University of Western Sydney Parramatta Campus Lecture Room EE G.03

1. Attendance

David Tien-Acting Chair  
Antony Zaglas  
John Robinson  
Eddie Fong  
Ali Hellany  
Karu Esselle

Graeme Gwilliam  
Nuala Ward  
Kim Chin  
Bruce Poon

Guests

Apologies

David Burger  
Graham Town  
Sam Reisenfeld

Iain Collings  
Vassilios Agelidis

2. Agenda

- 2.1. Correction: item 3.1 of Agenda should have stated September not August.
- 2.2. David Tien moved agenda be accepted and Eddie Fong seconded. Agenda accepted subject to above correction.

3. Minutes of September 2008 Meeting

3.1. September Minutes

- David Tien moved that minutes be accepted and John Robinson seconded the motion. The minutes were accepted.

3.2. Business Arising

- Alan Harvey was paid by John Robinson \$800. Copy of receipt to be given to Nuala Ward as well as receipts for Dinner \$333.15 with completed claim form.
- Dr Sarma visit expenses claim total \$125.80. Copy of receipts to be given to Nuala Ward with completed claim form.
- Ali Hellany moved that expenses be paid and David Tien seconded the motion. The motion was passed.

4. Correspondence

- 4.1. No Correspondence.

5. Treasurers Report

- 5.1. Nuala submitted report by email and is appended to the minutes. Graeme Gwilliam moved that report be received and Eddie Fong seconded the motion. The motion was carried.
- 5.2. Bass Statements Lodged quarterly to date and will change to yearly
- 5.3. Will try to sort out Withholding Tax
- 5.4. Commonwealth Bank CMT to be closed and money transferred to BOS account(about 6% interest)
- 5.5. David Tien did not go to Sections Congress and asked if he could make a claim for R10 meeting in February
- 5.6. Kim Chin to lodge documents for Education conference in Pittsburgh to \$1000 with supporting documentation
- 5.7. Eddie Fong to finalise his expenses claim for Sections Congress with supporting documentation.
- 5.8. Sarah Hakami sponsorship reduced to about \$1800 as NICTA provided some sponsorship

Rev: 0(Draft)

26 October 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section  
**229<sup>th</sup> Executive Committee Meeting Minutes**

Monday 13<sup>th</sup> October 2008 at 6:30pm

University of Western Sydney Parramatta Campus Lecture Room EE G.03

- 5.9. David Burgers expenses have been sorted out (about \$5000 less US\$1500 IEEE rebate to Section).
- 5.10. To date travel expenses to date are about \$12,000.
- 5.11. Treasurer's Report

**Item 1 - tax**

BAS statements have been sent to the ATO so we now are up to date. The following have been submitted: jan-mar 07, apr-jun 07, Oct-dec 07, jan-mar 08, apr-jun 08, jul-sept 08. I still need to follow up to find out how we can get a refund of the tax we have been charged on our commonwealth bank accounts – tax file number withholding tax (\$108)

**Item 2 – Commonwealth cash management trust account**

I have enquired with the commonwealth bank re options for alternatives for the Commonwealth Cash management trust account. Other alternatives to this would be to look at some of the on-line bank accounts eg ING or Bankwest, but I think it will be much simpler to maintain our accounts with the commonwealth bank – it will also make changing authorities on accounts simpler in future. My recommendation is that we close this account and move the funds into the Business Online saver account that has already been set up (currently with zero balance). **I will take this motion for approval at tonight's meeting.**

I will prepare a letter to the commonwealth bank regarding closing the CCMT account and moving the funds. I will get this countersigned by 2 of the other authority holders – David Tien, David Burger, Ian Boyd.

**Advantages of moving this to the business online saver account rather than moving to another bank**

Better interest rates than we are currently earning on the CCMT account (The business online saver account is currently earning 6% for balances over \$10,000). CCMT was earning 6.8% in August (prior to several interest rate cuts. The bank couldn't advise me today what the current effective interest rate would be going forward....)

No account keeping fees or other management costs. CCMT has costs per quarter of around \$280-\$300

Simplification of authorities. Note 2 signatures will still be required to transact on this account.

Linkage to current cheque account

Accessibility via online banking

**Disadvantages**

May be able to earn higher rate of interest at another bank with their online accounts, however this will be difficult to manage and administer

If the balance of the account is less than \$10,000 then we earn no interest.

**Item 3**

Updated status of accounts

Cheque account – balance: \$40,343.38

Business online saver account balance: \$0

Commonwealth Cash management trust account: including accrued interest: \$130,529.64 as at 13/10/08.

Attached is the current status of expenses up to date. There has been no additional income in the last month.

Rev: 0(Draft)

26 October 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp2 of 7

## 229<sup>th</sup> Executive Committee Meeting Minutes

Monday 13<sup>th</sup> October 2008 at 6:30pm

University of Western Sydney Parramatta Campus Lecture Room EE G.03

## Expenses

2008

Contents page		Grand Tot YTD INCL GST		\$ 26,045.31						Tot GST		\$ 1,798.36		Checksum		\$ 26,045.31	
		Cheques not yet cleared		\$ 1,379.40		Tot Ex GST		\$ 24,246.96									
Purchase	Date	Supplier	Section/Chq	Supplier	Description	Tot \$	Pmethod	Chq	cleared	GST rate %	Ex GST	GST	GST exempt				
1Q 2008 - January - March																	
1	23/01/2008	DJ Aboriginal Corporation	Sect	2175	expense	\$ 265.61	chq	26	y	10	\$241.46	\$ 24.15					
2	23/01/2008	APC	Sect	3268	expense	\$ 484.33	chq	27	y	10	\$440.30	\$ 44.03					
3	20/02/2008	Commonwealth bank - transaction list	sect		expense	\$ 2.50	cash	na	y	0	\$2.50	\$ -					
4	09/03/2008	D.Burger - PO box & mtg with Don black	sect		expense	\$ 197.60	chq	28	y	10	\$179.64	\$ 17.96					
5	16/03/2008	N.Ward - stationary, stamps	sect		expense	\$ 10.55	chq	29	y	10	\$9.59	\$ 0.96					
2Q 2008 - April - June																	
6	02/04/2008	APC	sect	3351	expense	\$ 133.12	chq	30	y	10	\$121.02	\$ 12.10					
7	15/04/2008	B.Poon - postage	sect		expense	\$ 3.00	chq	31	y	10	\$2.73	\$ 0.27					
8	15/04/2008	B.Poon - free student membership	sect		expense	\$ 474.59	chq	31	y	0	\$474.59	\$ -					
9	18/04/2008	APC	sect	3385	expense	\$ 372.81	chq	32	y	10	\$338.92	\$ 33.89					
10	19/04/2008	DrPhil Watts - training seminar	sect		expense	\$ 200.00	chq	33	y	10	\$181.82	\$ 18.19					
11	19/04/2008	Engineers Australia - engineering week 2008	sect	01-122	expense	\$ 1,650.00	chq	34	y	10	\$1,500.00	\$ 150.00					
12	20/05/2008	B.Poon - postage	sect		expense	\$ 1.00	chq	35	y	10	\$0.91	\$ 0.09					
13	20/05/2008	B.Poon - free student membership	sect		expense	\$ 856.88	chq	35	y	0	\$856.88	\$ -					
14	20/05/2008	B.Poon - free student membership	sect		expense	\$ 456.16	chq	36	y	0	\$456.16	\$ -					
15	28/05/2008	Commonwealth bank - forex fee for IEEE HQ cheque	sect		expense	\$ 10.00	cash	na	y	0	\$10.00	\$ -					
16	02/06/2008	N.Ward - stationary, stamps	sect		expense	\$ 16.95	chq	36	y	10	\$15.41	\$ 1.54					
17	04/06/2008	us union - GOLD mtg at UTS	sect	11519	expense	\$ 499.62	chq	37	y	10	\$454.20	\$ 45.42					
18	17/06/2008	Flight centre - D.Burger flight to Canada sections congress	sect		expense	\$ 3,994.00	chq	22	y	10	\$3,630.91	\$ 363.09					
3Q 2008 - July - September																	
19	07/07/2008	true blue printing - printing circuit	sect	11881	expense	\$ 517.00	chq	39	y	10	\$470.00	\$ 47.00				chq 38 cancelled	
20	07/07/2008	APC - service fees - apr-jun 08	sect	3465	expense	\$ 289.86	chq	40	y	10	\$263.51	\$ 26.35					
21	15/07/2008	Eddie Fong - flight to Canada - sections congress	sect		expense	\$ 3,349.00	chq	41	y	10	\$3,044.55	\$ 304.45				chq 42 cancelled	
22	04/08/2008	Eddie Fong - AGM deposit - Crowne Plaza Paramatta	sect		expense	\$ 628.75	chq	43	y	10	\$571.61	\$ 57.16				chq 43 for \$1050.90	
23	04/08/2008	Eddie Fong - Pen gift deposit - Awards & More	sect		expense	\$ 235.40	chq	43	y	10	\$214.00	\$ 21.40					
24	04/08/2008	Eddie Fong - Travel Insurance for Sections Congress - Suresa	sect		expense	\$ 186.75	chq	43	y	10	\$169.77	\$ 16.98					
25	04/08/2008	IEEE Australia Council - 2007 APC levy	sect		expense	\$ 1,144.00	chq	44	N	0	\$1,144.00	\$ -					
26	04/08/2008	Engineers aust - 2007 joint electrical programme	sect	01-89	expense	\$ 1,500.00	chq	45	y	10	\$1,363.64	\$ 136.36					
27	17/08/2008	Flight centre - D.Burger flight to Canada sections congress	sect		expense	\$ 3,994.00	chq	22	y	10	\$3,630.91	\$ 363.09					
28	04/08/2008	B.Poon - free student membership	sect		expense	\$ 13.43	chq	46	y	0	\$13.43	\$ -				chq 46 for \$14.43	
29	04/08/2008	B.Poon - postage	sect		expense	\$ 1.00	chq	46	y	10	\$0.91	\$ 0.09					
30	06/08/2008	SM&A - room hire July meeting	sect	5113	expense	\$ 44.00	chq	47	y	10	\$40.00	\$ 4.00					
31	14/08/2008	Collings - Expenses for IEEE DL visit - Norman Beaulieu	sect		expense	\$ 723.50	chq	50	y	10	\$657.73	\$ 65.77					
32	14/08/2008	Zhou Chen - Expenses for IEEE DL visit - Norman Beaulieu	chapter		expense	\$ 42.00	chq	49	y	10	\$38.18	\$ 3.82					
33	15/08/2008	APC - Service fees July 2008, postage	sect	3496	expense	\$ 206.56	chq	48	y	10	\$187.78	\$ 18.78					
34	30/09/2008	Eddie Fong - Pen gift remainder of payment - Awards & More	sect		expense	\$ 235.40	chq	52	N	0	\$214.00	\$ 21.40					
4Q 2008 - October - December																	
35	02/10/2008	NICTA - IEEE GOLD attendance - Sara Hakami	sect		expense	\$ 1,874.94	chq	53	N	0	\$1,874.94	\$ -					
36	03/10/2008	David Burger - Sections Congress travel & expenses	sect		expense	\$ 1,431.00	chq	54	N	0	\$1,431.00	\$ -					

## 6. Circuit Editor Report

- Only three submissions to date for November circuit.
- Kim Chin and Graeme Gwilliam would like to submit articles.
- Money for advertising received \$200(half page) from Donna Barlow Corporate Travel.
- Web site needs to be updated
- Eddie Fong to get latest Lecture List from David Burger.
- Graeme Gwilliam moved and Karu Esselle seconded the motion that Circuit Report be received. The motion was passed.

## 7. Committee Reports

### 7.1. Fellow Search – Walter Lachs Chair

- No Report.

## 7.2. Membership Development – Bruce Poon Chair

- Bruce Poon Membership Report emailed to Committee and is to be appended to the Minutes.
- There have been minor changes in membership and one enquiry for Senior Membership.

### 7.3. Professional Activities – Eddie Fong/John Robinson Chair

- There have been no JL Committee meetings since last Section meeting. Next meeting on Monday 20 October 2008.

#### 7.4. Educational Activities- Kim Chin Chair

- Draft CK-12 book obtained by Kim Chin at Education Conference in US. One suggestion was to set up a foundation for sending students to Camps similar to that set up in America. Kim Chin to suggest some activities and presentations to schools by Technologists.

### 7.5. Student Activities – Ali Hellany Chair

- Student Paper Contest

Rev: 0(Draft)

26 October 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section**  
**229<sup>th</sup> Executive Committee Meeting Minutes**

Monday 13<sup>th</sup> October 2008 at 6:30pm

University of Western Sydney Parramatta Campus Lecture Room EE G.03

There are Nine Universities and the foreseen maximum expenditure for next year is about \$8000

The Student Paper Contest email referred to by Sarah Hakami was for The Region 10 student paper contest. The NSW Section proposal was for a of prize for each University(UG &PG for each of the nine Universities)

One suggestion was to limit prizes to Universities that had an active student branch.

There is a Universities Website that allows students to publish their papers online. Ali Hellany to investigate options for limiting costs as the proposal in not sustainable long term(if all universities nominate papers) given Section annual income is limited.

- Bruce Poon advised that there will be an Industrial Day on 15/10/08 coordinated by UNSW Student Branch

7.6. Awards and Recognition - Ramutis Zakarevicius

- Nothing to Report.

7.7. Nominations – Bruce Poon Chair

- Nominations Received to Date

Chair: David Tien

Vice Chair: Eddie Fong

Treasurer: Nuala Ward

Secretary: ?

Circuit: Candice Gilmore

Webmaster: Fuat Acar

Nominations Committee to investigate all avenues for filling all positions.

7.8. Historian – David Burger Chair

- No Report.

7.9. Conference Coordinator-David Tien Chair

- Sydney Convention Bureau has offered to host our AGM. If in the City can provide venue.
- They have also offered to host our Section Meetings at their offices in William St.

7.10. Webmaster

- David Tien to talk to David Burger re progress with Web site. Fuat Acar has offered to take over Webmaster position.

8. Affinity Groups

8.1. GOLD Affinity Group

- No report

8.2. Life Member Activities – John Robinson Chair

- One meeting held at the Energy Australia Lecture Theatre on Electrical Power Generation in Lithuania by Prof. Roma Rinkevičienė on 23 September 2008. The second function will be the AGM.

8.3. Women In Engineering(WIE) – Kim Chin Chair

- There was a talk on Women in Engineering by Prof. Roma Rinkevičienė on 23 September 2008 which Kim Chin attended.
- Kim Chin met with Bronwyn Holland of UTS re establishment of WIE Affinity group and cooperation with other groups.
- There are fund of up to \$500 per group/chapter for functions with out approval from the Section.

Rev: 0(Draft)

26 October 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp4 of 7

**IEEE New South Wales Section  
229<sup>th</sup> Executive Committee Meeting Minutes**

Monday 13<sup>th</sup> October 2008 at 6:30pm

University of Western Sydney Parramatta Campus Lecture Room EE G.03

- Graeme Gwilliam moved and David Tien seconded the motion that \$500 be made available for functions for WIE for the express purpose of facilitating WIE Affinity group formation. The motion was passed.

**9. Chapter Reports**

9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - Ananda Sanagavarapu chair

- No report.

9.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair

- No Report.

9.3. **Computer Chapter** - Kate Carruthers Chair.

- No report.

9.4. **Education Chapter** – Mark Lee Chair

- No Report.

9.5. **Engineering in Medicine and Biology Society** - Jeff Armitstead Chair

- Report emailed by Jeff Armitstead
- There have been four technical meetings

**Record # : 29**

Section: <b>NEW SOUTH WALES</b>	Type: <b>CHAPTER</b>	Geocode: <b>R00509</b>	RecID: <b>2538</b>
SubName: <b>EMB18</b>	SubCode: <b>10370</b>	Was this meeting joint with student branch(es)?: <b>No</b>	Was this meeting part of the Distinguished Lecturers Program?: <b>No</b>
Meeting Date: <b>07/18/2008</b>	Attendance: IEEE Members: <b>45</b>	Attendance: Guests: <b>5</b>	Category: <b>Technical</b>
Title of Paper 1: <b>ANSTO Tour</b>	Speaker: <b>Dr Ron Weiner</b>	Title of Paper 2:	Speaker:

**Record # : 30**

Section: <b>NEW SOUTH WALES</b>	Type: <b>CHAPTER</b>	Geocode: <b>R00509</b>	RecID: <b>2538</b>
SubName: <b>EMB18</b>	SubCode: <b>10370</b>	Was this meeting joint with student branch(es)?: <b>No</b>	Was this meeting part of the Distinguished Lecturers Program?: <b>No</b>
Meeting Date: <b>08/07/2008</b>	Attendance: IEEE Members: <b>16</b>	Attendance: Guests: <b>20</b>	Category: <b>Technical</b>
Title of Paper 1: <b>Next-Generation Technologies for Decision Making in the Health and Biosciences</b>	Speaker: <b>Professor. Enrico Coiera</b>	Title of Paper 2: <b>Electronic Prescribing: Look Both Ways</b>	Speaker: <b>Dr. Nick Brennan</b>

**Record # : 31**

Section: <b>NEW SOUTH WALES</b>	Type: <b>CHAPTER</b>	Geocode: <b>R00509</b>	RecID: <b>2538</b>
SubName: <b>EMB18</b>	SubCode: <b>10370</b>	Was this meeting joint with student branch(es)?: <b>No</b>	Was this meeting part of the Distinguished Lecturers Program?: <b>No</b>
Meeting Date: <b>08/08/2008</b>	Attendance: IEEE Members: <b>16</b>	Attendance: Guests: <b>17</b>	Category: <b>Technical</b>
Title of Paper 1: <b>Designing safer computer-human interactions</b>	Speaker: <b>Dr Farah Magrabi</b>	Title of Paper 2: <b>Biosurveillance Systems: what you do not know will hurt you</b>	Speaker: <b>Vitali Sintchenko</b>

Rev: 0(Draft)

26 October 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section  
229<sup>th</sup> Executive Committee Meeting Minutes**

Monday 13<sup>th</sup> October 2008 at 6:30pm

University of Western Sydney Parramatta Campus Lecture Room EE G.03

Meeting Report was submitted on Sun Oct 12 21:42:00

Below is the meeting information:

Section: NEW SOUTH WALES, Type: CHAPTER, Geocode: R00509

RecID: 2538, SubName: EMB18, SubCode: 10370

Meeting Date: 08/08/2008, Category: Technical

Was there an admission charge? No

Attendance: Members: 13, Guests: 0

Was this meeting joint with student branch(es)? Yes

Was this meeting part of the distinguished lecturers program? No

Title of Paper1: Tour of the Centre for Implantable Bionics, Speaker1: Dr Gregg Suanning

Title of Paper2: , Speaker2:

Submitted by: Jeff Armitstead

Email Address: jeffa@ieee.org

Dr. Jeff Armitstead

Manager Engineering Research - Sleep

Chair IEEE EMBS, NSW

- 9.6. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter - AP Graham Town Chair
- No Report.
- 9.7. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter - P Danny Soetanto Chair
- No report.
- 9.8. **Power and Energy Society** chapter- John Robinson Chair
- Proposed DL visit has fallen through(lecturer pulled out)
  - John Robinson met with Dr Sarma who visited Sydney University to meet with the Student branch.
10. Meetings and Conferences
- 10.1. Auswireless 2007 – No progress re profit share. Nuala Ward to send reminder to Johnson Agbinya.
- 10.2. Oceans Conference 2010- Awaiting Headquarters reply to Joint Chapter formation. This is possibly due to the Aug-Sept vacation in the US.
- 10.3. Sections Congress
- Graeme Gwilliam spent most of his time at the Life Members booth.
  - Focus on MGA workshops and Membership Development. R10 focus on Foundation.
  - The outcome was that IEEE was to be less USA centric. There were 10 basic recommendations coming out of the Congress. Eddie Fong to forward to Antony Zaglas soft copy for attachment.
  - IEEE was sensitive as to how 125 year celebrations will be projected.
- 10.4. IEEE ICASSP 2013 (SAM R 23/01/08)-No Report
- 10.5. AUPEC2008 UNSW Sydney 14-17 Dec 2008 <http://www.ee.unsw.edu.au/aupec2008/>
- 10.6. IEEE NSW Section Technical Sponsorship for AusCTW
- David Tien moved and Graeme Gwilliam seconded the motion that Technical sponsorship be provided for the conference. The motion was passed.
- 10.7. ICITA 2009 Conference Bathurst- Need details
- 10.8. LiDAR **2009** Conference Bathurst- Need details

Rev: 0(Draft)

26 October 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section  
**229<sup>th</sup> Executive Committee Meeting Minutes**

Monday 13<sup>th</sup> October 2008 at 6:30pm

University of Western Sydney Parramatta Campus Lecture Room EE G.03

11. Other Business

11.1. AGM will be on Friday 28 November 2008.

- Dinner menu has been sorted out.
- Booking has been confirmed and deposit to Crowne Plaza has been paid.
- David Tien to obtain Listserve from David Burger.
- Graeme Gwilliam moved that committee member partners be invited to the AGM Dinner free of cost. Also active Student Branch officers be invited(two per branch). Eddie Fong seconded Motion. The motion was passed.

11.2. Revisions to Section Bylaws proposed by John Robinson and Graeme Gwilliam are generally in line with MGA ops manual. Items to be included:

- Webmaster position
- Bank Accounts for each chapter(for discussion)
- \$500 for chapter and affinity group activities(listed in accounts and budget)
- Tony Zaglas to send comments to John Robinson in writing

11.3. HQ has indicated that there will be ten centres for the 125 years anniversary if IEEE with two in Region 10(Beijing and Tokyo).

11.4. Australia Council nominations close 16 October 2008. Graeme Gwilliam proposed that NSW Section support Dr Ian Boyd for Chair. Graeme Gwilliam to urgently contact Ian Boyd and confirm his nomination. Committee to indicate their support by email given the short time available.

12. Next Meeting:

- 7:00pm on the 3<sup>rd</sup> November 2008 at Northern Institute of TAFE.

13. Meeting Closed

13.1. Meeting closed 9:10pm

Rev: 0(Draft)

26 October 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp7 of 7



**IEEE New South Wales Section**  
**230<sup>th</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> November 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College St Leonards, Library(Bldg Q) Seminar Room 2

**1. Attendance**

David Burger-Chair  
Antony Zaglas  
John Robinson  
Ali Hellany  
Karu Esselle

Graeme Gwilliam  
Walter Lachs  
Bruce Poon  
David Tien

**Guests**

Fuat Acar  
Sarah Hakami  
Mohamad Nassereddine(UWS Student Chair)

**Apologies**

Eddie Fong  
Ramutis Zakarevicius  
Kim Chin  
Nuala Ward

Graham Town  
Sam Reisenfeld  
Jeff Armitstead  
Vassilios Agelidis

**2. Agenda**

- 2.1. David Burger advised that item 8.3 WIE is in the process of formation and not an Affinity Group yet.
- 2.2. Antony Zaglas moved that the agenda be accepted subject to the above and David Tien seconded. Agenda accepted subject to above correction.

**3. Minutes of October 2008 Meeting**

**3.1. October Minutes**

- Jeff Armitstead apology to be added.
- David Burger email with Sections Congress and History reports to be added.
- Karu Esselle moved minutes be accepted and David Tien seconded the motion. The minutes were accepted.

**3.2. Business Arising**

- No Business arising

**4. Correspondence**

- 4.1. 2009 Student Congress circular was tabled by Antony Zaglas.

**5. Treasurers Report**

- 5.1. John Robinson asked about withholding tax and indicated that as a not or profit organisation we should not be paying tax.
- 5.2. David Tien, David Burger and Nuala Ward had signed CCMT closure request and transfer of the money to the BOS account. Graeme Gwilliam indicated that he did not think he needed to sign the document as he was advised he was no longer a signatory to the account. Antony Zaglas to contact CBFS and get status.

**6. Circuit Editor Report**

- November Circuit has been issued but has not been posted on web site.
- The committee would like to express their thanks to Eddie Fong for his efforts.

**7. Committee Reports**

- 7.1. Fellow Search – Walter Lachs Chair
  - Nothing to Report.
- 7.2. Membership Development – Bruce Poon Chair

Rev: 0(Draft)

9 November 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section**  
**230<sup>th</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> November 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College St Leonards, Library(Bldg Q) Seminar Room 2

- Bruce Poon Membership Report emailed to Committee 11:45AM and is to be appended to the Minutes.
  - There have been minor changes in membership.
- 7.3. Professional Activities – Eddie Fong/John Robinson Chair
- 12 February 2009 lecture by CITECT.
  - 26 February details to follow
  - 12 March 2009 lecture by Vassilios Agelidis on FACTS
  - 26 March 2009 lecture on lightning protection and AS 1768
  - 16 April 2009 lecture details to follow
  - 30 April 2009 lecture details to follow.
- 7.4. Educational Activities- Kim Chin Chair
- No Report.
- 7.5. Student Activities – Ali Hellany Chair
- Student Paper Contest  
Ali Hellany put forward alternative proposal of \$100 for each of first and second prize together with certificate. Proposed 1<sup>st</sup> October as deadline for submission of papers. The decision to proceed with 2009 paper contest to be taken during February 2009 meeting and advised to universities end February 2009.
  - Bruce Poon to advise David Tien of retention rate for free student memberships.
  - David Burger explained that Member funds can not be used for scholarships and student prizes were OK.
  - 125 year anniversary R10 Student Congress 2009. Aim for 2-5 students attending.
- 7.6. Awards and Recognition - Ramutis Zakarevicius
- Nothing to Report.
- 7.7. Nominations – Bruce Poon Chair
- Nominations closed with four nominations for executive committee
  - Keith advised that Ian Boyd's nomination for Australia Council Chair was not considered as nominations had closed
- 7.8. Historian – David Burger Chair
- History document was uploaded to Global History Network and removed from the NSW web site.
- 7.9. Conference Coordinator-David Tien Chair
- Sydney Convention Bureau meeting took place.
  - Sydney Convention Centre has offered to sponsor our AGM.
  - They have also offered to host our Section Meetings at their offices in William St. The committee expressed their appreciation regarding the offer and we are to advise the SCC that at present we are not able to accept but in future we would consider the offer.
- 7.10. Webmaster
- Bruce Poon moved that Fuat Acar be appointed to vacant webmaster position and Ali Hellany seconded the motion. The motion was passed.
  - Antony Zaglas to send contact list to new officers.
8. Affinity Groups
- 8.1. GOLD Affinity Group
- Ali Hellany moved and John Robinson seconded the motion that Sarah Hakami be appointed GOLD Chair. The motion was passed.

Rev: 0(Draft)

9 November 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section**  
**230<sup>th</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> November 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College St Leonards, Library(Bldg Q) Seminar Room 2

8.2. Life Member Activities – John Robinson Chair

- Correction to L31 forms to be lodged re Life Member/PES/WIE meetings.

8.3. Women In Engineering(WIE) – Kim Chin Chair

- Affinity Group in process of formation.

9. Chapter Reports

9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter - Ananda Sanagavarapu chair

- One meeting held and another planed.

9.2. **Communications and Signal Processing** joint chapter - Dr Iain Collings Chair

- Two meetings have been held.

9.3. Computer Chapter - Kate Carruthers Chair.

- No report. **Antony Zaglas to send a reminder.**

9.4. Education Chapter – Mark Lee Chair

- No Report. **Antony Zaglas to check.**

9.5. **Engineering in Medicine and Biology Society** - Jeff Armitstead Chair

- There have been four technical meetings

9.6. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter - AP Graham Town Chair

- There have been three technical meetings.

9.7. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter - Danny Soetanto Chair

- There have been two meetings.

9.8. **Power and Energy Society** chapter- John Robinson Chair

- There has been at least one meeting

10. Meetings and Conferences

10.1. Auswireless 2007 – No progress re profit share. Nuala Ward to send reminder to Johnson Agbinya.

10.2. Oceans Conference 2010- Joint Chapter formation has been approved. David Burger to send committee the relevant documents. Document to be append to minutes.

10.3. IEEE ICASSP 2013 (SAM Reisenfeld email 23/01/08)-No Report

10.4. AUPEC2008 UNSW Sydney 14-17 Dec 2008 <http://www.ee.unsw.edu.au/aupec2008/>

10.5. IEEE NSW Section Technical Sponsorship for AusCTW

10.6. ICITA 2009 Conference Bathurst- Need details from David Tien

10.7. LiDAR **2009** Conference Bathurst- Need details from David Tien

10.8. John Robinson to send Antony Zaglas 10 point recommendation that resulted from Sections Congress.

11. Other Business

11.1. AGM will be on Friday 28 November 2008.

- There will be an extensive Chairs report to include Membership report.

Rev: 0(Draft)

9 November 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section  
230<sup>th</sup> Executive Committee Meeting Minutes**

Monday 3<sup>rd</sup> November 2008 at 7:00pm

Northern Sydney Institute of TAFE, North Sydney College St Leonards, Library(Bldg Q) Seminar Room 2

- Treasurers Report required to be presented by Nuala Ward.
  - Chapter Reports to be tabled only.
  - David Burger to organise printing for AGM. Antony Zaglas to send a reminder.
  - David Burger to send AGM reminder to members.
  - David Burger to add David Tien to Listserve.
  - Antony Zaglas to check with North Sydney TAFE about inviting Campus Director and partner to the AGM Dinner.
  - Antony zaglas to email Member Services about obtaining three Past Section Chair pins.
  - Annual Dinner other Guests
    - Prof Brian Uy and Partner from UWS
    - Amal Hanna and Partner
    - Pedro Harris and Partner
    - Josh ??? from Sydney Convention Centre
    - New Life Members(Antony Zaglas to check Circuit)
  - UNSW Student Branch Dinner Invitations
    - Sri Parameswaran
    - Eric Poon
  - UWS Student Branch Dinner Invitations
    - Mohamad Nassereddine
    - Patriska ??(Ali Hellany to advise fullname)
  - Macquarie University
    - Arif Khan(to be represented by Ozgur Isik)
    - Yogesh Ranga
- 11.2. Section Bylaws proposed by John Robinson and Graeme Gwilliam are have been revised and are generally in line with MGA ops manual.

12. Next Meeting:

- 7:00pm on the 2<sup>nd</sup> or 9<sup>th</sup> February 2009 at Northern Institute of TAFE. Antony Zaglas to check with TAFE re available date.
- Antony Zaglas to issue draft agenda for February 2009 meeting.

13. Meeting Closed

13.1. Meeting closed 8:30pm

Rev: 0(Draft)

9 November 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp4 of 4

# **IEEE NSW SECTION 23<sup>rd</sup> ANNUAL GENERAL MEETING**

Friday 28 November 2008

Crowne Plaza, 30 Phillip St Parramatta, NSW 2150

## **MINUTES OF MEETING**

1. Welcome by Chairman
  - 1.1. The meeting was declared open at 7:10pm by the Chairman David Burger who also gave the welcome address and introduced the 2008 NSW Section Committee.
2. Attendance and Apologies
  - 2.1. Present
    - David Burger(Chair/Historian)
    - David Tien(Vice Chair/Acting Treasurer)
    - Graeme Gwilliam(Past Chair)
    - Nuala Ward(Treasurer)
    - Antony Zaglas(Secretary)
    - Walter Lachs(Fellow Search)
    - Ramutis Zakarevicius(Awards)
    - Trevor Bird
    - John Robinson(PES Chair/Life Members)
    - Ananda Sanagavarapu(Chair AP/MTT)
    - Iain Collings(Comms/SP/OCE)
    - Eddie Fong(Circuit/Professional Activities)
    - Fuat Acar(Webmaster)
    - Karu Esselle
    - Dennis Cooper
    - Pedro Harris
    - Robert Salama
    - Sara Hakami(Chair UNSW Student Branch)
    - Mohamed Nassereddine
    - Ajay Tanega
    - Ramakoti Sadananda
    - Stephen Hanham
    - Yogeshwar Ranga
    - Joseph Kwok
    - Jitendra Verma
    - Ozgur Isik
    - Pushpika Wijesinghe
    - Eric Poon
    - Jeri Roberts
  - Guests
    - Prof Jeffrey Zou(UWS)
  - 2.2. Apologies
    - Bruce Poon((Membership)
    - Mark Lee(Education Chair)
    - Ali Hellany(Student Activities)
    - Kate Carruthers(Computer Chair)

# **IEEE NSW SECTION 23<sup>rd</sup> ANNUAL GENERAL MEETING**

Friday 28 November 2008

Crowne Plaza, 30 Phillip St Parramatta, NSW 2150

## **MINUTES OF MEETING**

Pankaj Mehta  
Arif Khan  
Graham Town(Chair LEOS/SSC/CS)  
Danny Soetanto(Chair IA/PEL/PE)  
Ali Hellany(Student Activities)  
Faz Rahman  
Phil Dulhunty  
Vassilios Agelidis

3. Minutes of 2007(22<sup>nd</sup>) AGM
  - 3.1. Ananda Sanagavarapu moved that the minutes of the 2007 AGM be accepted and John Robinson seconded the motion. The minutes were accepted by the members without amendment.
  - 3.2. There was no Business Arising from 2007 AGM Minutes
4. Chairman's Report
  - 4.1. Printed copies of the chairman's report were made available and are appended to these minutes. David Burger presented the report and further expanded on key items within the report.
  - 4.2. Part A.1 Executive summary outlined major events and achievements in 2008.
  - 4.3. Part A.2 presented a summarised financial report
  - 4.4. Part A.3 listed Section Office holders and Executive Committee
  - 4.5. Part B.1 showed Membership numbers for 2007 and 2008. Active membership up on 2007, Student membership down and chapter membership showed a slight increase.
  - 4.6. Parts B.2 to B.7 covered Professional, Affinity Group, Chapter, Student and other activities, awards and the new Joomla Content Managed Web Site by Eduardo Navarro.
  - 4.7. Part C covered IEEE NSW Section relationship with IET and Engineers Australia.
  - 4.8. Part D relates to goals and plans.
  - 4.9. Karu Esselle moved report be received and Trevor Bird seconded the motion. The motion was passed.
5. Treasurer's Report
  - 5.1. Nuala Ward presented the 2007 and interim 2008 Treasurer's reports which are appended to the minutes.
  - 5.2. Final 2008 Treasurer's report should be ready in January.
  - 5.3. Transaction and Investment accounts show healthy balances.
  - 5.4. There were some problems in sorting out the accounts resulting from the relocation of the former treasurer Rob Curtis and it involved significant work to bring the accounts up to date.

# **IEEE NSW SECTION 23<sup>rd</sup> ANNUAL GENERAL MEETING**

Friday 28 November 2008

Crowne Plaza, 30 Phillip St Parramatta, NSW 2150

## **MINUTES OF MEETING**

- 5.5. There were some difficulties in getting access to the investment account however funds have finally been transferred to the Commonwealth bank BOS account and are now fully accessible and statements available to the Treasurer.
- 5.6. The Chairman David Burger thanked Nuala Ward for her efforts in overcoming significant difficulties in preparing the accounts for 2007 and 2008.
- 5.7. Karu Esselle moved report be received and Trevor Bird seconded the motion. The motion was passed.
6. Election of Executive Officers for 2009
  - 6.1. Graeme Gwilliam standing in for Bruce Poon, Chair  
Nominations, explained the difficulty in getting two nominations for each office as required by IEEE Regulations and that only one nomination for each office was received.
  - 6.2. Nominations
    - Section Chair: Nomination - David Tien
    - Section Vice Chair: Nomination – Eddie Fong
    - Section Secretary: Nomination – Pedro Harris
    - Section Treasurer: Nominations – Nuala WardThere being no other nominations the positions of Chairman, Vice Chairman, Secretary and Treasurer were declared filled, as nominated above, by Graeme Gwilliam on behalf of the Nominations chair.
7. Other Business
  - 7.1. 2009 Chair Elect David Tien addressed the members giving a summary of his background and a short presentation of his plans for the future. These included the creation of committees for Industry and Government Liaison, Course Accreditation and Continued Education, regular events, Networking, Job net, Annual Dinner and Dance with free attendance for members.
  - 7.2. Graeme Gwilliam advised that Philip Dulhunty was the recipient of the prestigious James Kirby Award.
8. Meeting Closure
  - 8.1. David Burger thanked everyone for their attendance and declared the meeting closed at 7:50pm.

Antony Zaglas

IEEE NSW Section Secretary 2007/2008.

## IEEE New South Wales (NSW) Section, 2008 Annual General Meeting Report



Prepared by David E Burger [k3hz@ieee.org](mailto:k3hz@ieee.org)  
Section Chair – 2008.  
Report date 23 November 2008.

### PART A - SECTION SUMMARY

#### A.1 Executive Summary

Major Events and Achievements in 2008:

- Acceptance of the Cochlear IEEE Milestones nomination on 26 February 2008 by the IEEE History Center, Rutgers University. This is a first milestone nomination (and acceptance) to be obtained in Oceania and the first in Region 10 outside of Japan. A supplementary update was made in October'08, with the award outcome still pending.
- Introduction of a recognition award for the best speaker in the 2008 Joint lecture program. This is titled the "IEEE NSW Best Speaker Award in 2008, in memorial of Jim Vasseleu". The award is still being considered by the Awards Committee.
- Macquarie University student Michael Boers won the global IEEE MTT High Efficiency Power Amplifier Competition award, producing a 10 watt amplifier operating at 1.2Ghz with an efficiency of 80%.
- Mr Don Black, Chair of the Orange County Section in California visited and met with our Section here in February 2008, with a visit to The University of Sydney.
- Mr Roberto Saracco, 2008 appointed Director of the IEEE Communications Society visited our section from Italy on 4th March'08 and met with Communications Society members here.
- IEEE Communications Society distinguished lecturer Prof. Norman Beaulieu visited Sydney on 11-12 August'08.
- The successful conversion throughout the year of our EWH website to a Joomla content management system by Mr Eduardo Navarro of Puerto Rico, we now fully comply with IEEE web format and branding guidelines. The appointment of Fuat Acar to undertake web content management update activities was done in Oct 2008.
- A strong representation by IEEE NSW at the Quebec City 2008 Sections Congress with Eddie Fong and David Burger attending, and at the IEEE GOLD Congress with Ms Sarah Hakami attending.
- A major porting of the IEEE NSW History and heritage material and content across to the new IEEE Global History Network located at [www.ieeeahn.org/wiki](http://www.ieeeahn.org/wiki) This commenced in November 2008, and is in preparation for the IEEE 125 year anniversary for 2009.
- Mr Bob Grow, 2008 Chair IEEE-SA Standards Board, visited and met with our Section in late November'08, in a logistics review of Sydney venues.

#### A.2 Financial Report

Opening balance of our CBA cheque account at 1 Jan 2008 was AUD\$34,669.22  
and Investment account balance AUD\$123,598.09

Please refer to the separate financial report tabled for the 2008 AGM.



### A.3 List of Section Officer and Executive Committee Members

#### IEEE New South Wales Section - 2008 Committee

##### Executive Committee Members

Chairman	<a href="#">David Burger</a>
Vice-Chairman	<a href="#">David Tien</a>
Secretary	<a href="#">Antony Zaglas</a>
Treasurer	<a href="#">Nuala Ward</a>

##### Section Officers

Fellow Search	<a href="#">Walter Lachs</a>
Past Chair	<a href="#">Graeme Gwilliam</a>
Membership Development	<a href="#">Bruce Poon</a>
Professional Activities	<a href="#">David Burger</a>
Educational Activities	<a href="#">Ms Kim Chin</a>
Student Activities	<a href="#">Ali Hellany</a>
Awards and Recognition	<a href="#">Zak Zakarevicius</a>
Life Member Activities	<a href="#">John Robinson</a>
Nominations	<a href="#">Graham Gwilliam</a> , <a href="#">Bruce Poon</a>
Newsletter Editor	<a href="#">Eddie Fong</a>
GOLD Affinity Group	<a href="#">Alejandro Monroy</a> / Sarah Hakami
Historian	<a href="#">David Burger</a>
PEL/IAS/IE Chapter Chair	<a href="#">Danny Soetanto</a>
Comms/Sig Processing Chair	<a href="#">Iain Collings</a>
AP/MTT Chapter Chair	<a href="#">Ananda Sanagavarapu</a>
EMBS Chapter Chair	<a href="#">Jeff Armitstead</a>
LEOS/SSC/CS Chapter Chair	<a href="#">Graham Town</a>
Computer Chapter Chair	<a href="#">Kate Carruthers</a>
PES Chapter Chair	<a href="#">John Robinson</a>
Education Chapter Chair	<a href="#">Mark Lee</a>

## PART B - ORGANISATIONAL ACTIVITIES

### B.1 Membership Development Programs

- Effort in Membership Development

The IEEE NSW Section targeted another 200 free student memberships in 2008. The sponsored memberships were for first time student members only. A total of 164 student members were sponsored in 2008. We also increased our visibility at Universities with posters, as well as maintaining a public "Google Calendar" for all our local NSW events. Many thanks to Mr Pankaj Mehta from Wollongong for keeping this up to date.

The IEEE NSW google calendar event weblink is located here→

<http://www.google.com/calendar/embed?src=k3hz%40ieee.org&ctz=Australia/Sydney>

● Evidence of retention of members

2008 showed a good upturn in all membership grades, except for students, where we had across the board drops in memberships at all Universities. We also ran the largest ever student sponsorship program in NSW during 2008. The membership comparison to 2007 is shown below, based on figures as at 31 October.

Classification of IEEE NSW Member		2007	2008	from 2007
		31/10/2007	31/10/2008	
<b>Total Active members</b>		2337	2445	105%
Active members	excluding affiliates	2183	2304	106%
Active Life member	all grades	52	53	102%
Active senior members	including Fellows	156	165	106%
Active student members	all grades	350	304	87%
Active female members		161	162	101%

Student Branch	Number	Number	from 2007
University of New South Wales	132	99	75%
The University of Sydney	57	46	81%
Macquarie University	27	21	78%
University of Technology Sydney	46	21	46%
University of Wollongong	23	18	78%
Western Sydney University of Nepean	14	12	86%
Charles Sturt University	18	8	44%
<b>Total Students</b>	317	225	71%

Society Chapters in NSW	Number	Number	from 2007
Computer	788	770	98%
Communications / Signal Processing	440	479	109%
Power Energy	130	139	107%
Industrial Electronics / Power Electronics / Industrial Applications	88	96	109%
Lasers and Electro-Optics / Circuit and Systems / Solid State Circuits	82	91	111%
Antennas & Propagation / Microwave Theory & Techniques	77	77	100%
Engineering in Medicine and Biology	79	72	91%
Education	15	13	87%
<b>Total Active Chapter members</b>	1699	1737	102%

● GOLD, WIE and Life Members Group Activity

- IEEE NSW GOLD functions were conducted early in 2008 while Alejandro was looking after the GOLD group. Sadly Alejandro's work and finances did not allow him to continue in IEEE or this role, and we understand he has returned back to Bogota. We offer thanks for his participation. Sarah Hakami was appointed to the GOLD Chair in September 2008.
- An affinity start-up petition is still being canvassed for the second year now. A new WiE group here in New South Wales is still proposed. This is being championed by Ms Kim Chin.
- The Life Members will utilise the Nov '08 AGM to welcome new Life Members.

## B.2 Professional and Continuing Education Activities

Continuing Educational activities including conferences, technical event, training courses. IEEE NSW cooperated with the IEEE Australia Council on distinguished lecturer events.

### B.3 Recognised educational Programs.

All our conferences, technical events, training courses are filtered and classified and recognised by IET and Engineers Australia in NSW. IEEE NSW cooperated with the IEEE Australia Council on distinguished lecturer events.

### B.4 Students Activities

#### ● Active Student Branches activity

The University of New South Wales has the most active student branch in our Section, and has participated in all student awards conducted by NSW and the IEEE Australia Council. The University of Western Sydney student branch establishment and growth is being championed by Dr Ali Hellany with full support by the Section.

#### ● Recruitment of student members.

This recruitment drive has grown into two significant areas:

1. A sponsored student member program where the IEEE NSW Section actively sponsors the membership costs of 200 students. There were 70 full year student sponsorships made and 94 half year student sponsorships made in 2008.

2. The IEEE NSW Section participates in first year Electrical Engineering student briefings at The University of Sydney. This is now a regular fixture, and occurs in March each year.

#### ● Student Paper contest

This was developed by recent committee member Dr Ali Hellany of UWS. There are now two prizes on offer, The undergraduate prizes titled the "IEEE NSW Max Simons undergraduate Student Prize", and the "IEEE NSW Jim Vasseleu Postgraduate Student Prize". The implementation and publicity around these new prizes will be launched early 2009 given our academic calendar constraints.

#### ● Student Branch contest

This is promoted on behalf of the IEEE Australia Council where NSW has committee representation.

### B.5 Awards

● IEEE NSW prepared a History Milestone Nomination submission for the cochlear Implant, submitted on 20 September 2007, with acceptance from the IEEE History Center, Rutgers University received on 26 February 2008.

### B.6 Chapter Activities

A summary of Chapter and related Activities is below. The current chapter and section event activity is summarised

below. This should not be considered as the end of year summary, as some events are presently scheduled for December 2008.

Section: NEW SOUTH WALES Type: CHAPTER Geocode: R00509 as at 23 Nov 2008.

IEEE NSW - Chapter / Section Entity	Meetings
AP03/MTT17 - Antennas / Microwave Theory	1
C16 - Computer	1
E25 - Education	3
EMB18 - EMBS	7
GOLD Graduates	2
IE13/IA34/PEL35 - Industrial Electronics	2
LEOS/CAS/SSC - Laser Optics Solid State Circuits	0
LIFE MEMBERS	1
NEW SOUTH WALES SECTION	10
PE31 - Power Energy	1
SP01/COM19 - Signal Processing / Communications	5

### **B.7 E-mail and Newsletter Activities, Home Page**

The NSW Section Chair distributed a monthly activities update e-mail to all members through the IEEE e-Notice facility. We have received good feedback about this style of communication with members.

- Number of hard print Newsletter –

One hardcopy newsletter was sent to all members located in NSW in July'08,

- Number of electronic Newsletters – The Newsletters are titled Circuit.

Three issues were produced in 2008, delivered on both e-mail and web. Additionally there was a monthly e-mail update issued to all members in NSW. An electronic copy of these Newsletters is at our website. For those without e-mail access, paper copies were sent for all three issues.

- Section, Chapters and Student Branches Web Pages

The new South Wales section WebPages includes Chapter links and material at :

<http://ewh.ieee.org/r10/nsw/>

We have engaged an IEEE volunteer Mr Eduardo Navarro from Puerto Rico to get our website migrated to a Joomla content management system. This commenced in May 2008. This has proved to be very successful, even though Eduardo had other significant other commitments to deal with. We express our sincere thanks to Eduardo for helping us out and also to Don Black, Chair of the Orange County Section in California for providing the introductions.

The Section website also includes all our Chapter activities. In October 2008, the committee appointed Mr Fuat Acar to undertake the Joomla content management of our website.

Student Branch WebPages are maintained at:

- University of NSW
- The University of Sydney
- Charles Sturt University
- University of Western Sydney

## **PART C – OTHERS**

### **C.1 Relationship with National Societies**

- An Memo of understanding is active between Engineers Australia and the IET during 2008. We have also cooperated in a 10 day Engineering week program held mid-year with Engineers Australia; with events and a \$1,500 sponsorship from IEEE NSW.
- IEEE NSW also sponsored a Young Engineers speaking function in concert with the Australian Institute of Energy on 22 April.

### **C.2 Special Events**

- There were no special events conducted in 2008, but preliminary planning for the IEEE 125 year anniversary in 2009 was undertaken.

### **C.3 Anticipated Problems**

- None.

## **PART D – GOALS AND PLANS**

### **D.1 Projects / Activities & Implementation Plans**

- To streamline financial matters and handovers between treasurers. The handover of signature to all accounts from the 2006 treasurer to 2007 treasurer took over 4 months.
- To consolidate our financial banking into one branch located in the city centre.

### **D.2 Future Plans**

As part of the ongoing succession plans with the committee for IEEE NSW, we have had three NSW participants attend the triennial IEEE Sections Congress (SC'08), where representatives from all 328 Sections in the world meet and share ideas, visions, experiences and establish contacts. The challenge facing the IEEE is maintaining its relevance, its values and initiatives in the face of changing social behaviors. The SC'08 communicated means of engaging the media, with technology news, awards and recognition and raising the profile of important individuals. There is no Nobel Prize for technologists, and the IEEE is working to establish the IEEE Medal of Honour as the highest global technology award.

The SC'08 also gave attendees a first hand look at the personal stories behind 8 of the past IEEE presidents, as well as allowing us to meet some of the characters within the IEEE. It is apparent that most IEEE Sections face similar issues, as well stimulating lateral ideas to adapt what IEEE offers members.

## 2007 ANNUAL GEOGRAPHIC UNIT FINANCIAL REPORT

### INDEX

<b>1</b>		<b>Seven (7) Easy Steps to completing your L50 Financial Report</b>
<b>2</b>	<b>Schedule I</b>	<b>Receipts and Expenses</b> Page 1 of 3: Receipts ( <a href="#">Section A</a> ) Page 2 of 3: Expenses ( <a href="#">Section B</a> ) Page 3 of 3: Net Receipts (Expenses) and Reconciliation to Cash Accounts ( <a href="#">Section C</a> )
<b>3</b>	<b>Schedule II</b>	<b>Statement of Net Worth</b> Assets, Liabilities and Net Worth
<b>4</b>	<b>Schedule III</b>	<b>Analysis of Other Receipts (Line 3.00 - Schedule I)</b> (Line 3.00 - Schedule I, page 1)
<b>5</b>	<b>Schedule IV</b>	<b>Analysis of Program Expenses and Management / General Expenses.</b> (Line 5.00-Schedule I, page 2)
<b>6</b>	<b>Schedule V</b>	<b>Analysis of Purchases and Sales</b> Page 1: Investments Page 2 :Furniture and Equipment
<b>7</b>	<b>Schedule VI</b>	<b>Analysis of Loans, Advances &amp; Accounts Receivables and Payables</b> Page 1: Analysis of Cash Loans and Advances ( Receivables & Payables ) Page 2: Analysis of Accrued Account Receivables and Account Payables
<b>8</b>	<b>Schedule VII</b>	<b>Reconciliation of Checkbook to Bank Statements</b>
<b>9</b>		<b>General Information and Certification Schedule</b>
<b>10</b>		<b>Geographic Unit Officer's Conflict of Interest (COI) Disclosure Statement, Principles of Business Conduct Compliance Certificate (PoBC)</b>
<b>11</b>		<b>Form L-50 Checklist</b>



## IEEE FINANCIAL REPORT FOR THE YEAR ENDING 31 DECEMBER 2007

### SEVEN (7) EASY STEPS TO COMPLETING YOUR L-50 FINANCIAL REPORT

#### STEP # 1 **PREPARE SCHEDULE I - RECEIPTS & EXPENSES (3 PAGES)**

As you prepare Schedule I, note if any of the receipts or expenses would require you to prepare support Schedules III, IV, V or VI. If yes, complete those schedules and transfer the balances to Schedule I as instructed.

#### STEP # 2 **PREPARE SCHEDULE VII - RECONCILIATION OF CHECKBOOK TO BANK STATEMENTS**

The total of Column A in Schedule VII must agree with the total in Line A, Column D of Schedule II.

#### STEP # 3 **REVIEW SCHEDULE II - STATEMENT OF NET WORTH**

As you review Schedule II, note if any of the assets or liabilities would require you to prepare support Schedule V or VI. If yes, complete those schedules as instructed.

#### STEP # 4 **PREPARE THE GENERAL INFORMATION & CERTIFICATION SCHEDULE (Required), THE CONFLICT OF INTEREST DISCLOSURE STATEMENT (COI) (Required) AND PRINCIPLES OF BUSINESS CONDUCT COMPLIANCE CERTIFICATE (Required)**

On the General Information and Certification Schedule, make sure the Treasurer and Chair Profiles for 2007 and 2008 are completed and signed and that the Audit, Registration and Tax questions have been addressed.

#### STEP # 5 **PREPARE THE CHECKLIST (MUST BE INCLUDED WITH THE L50 REPORT)**

Prepare the Checklist to confirm that all of the necessary schedules and materials have been provided for submission to the IEEE Member and Geographic Activities Department.

#### STEP # 6 **PHOTOCOPY FOR YOUR RECORDS**

Photocopy all of the prepared schedules, checklist, bank and/or investment statements for your file copy in the event that there are questions asked subsequent to submitting the L-50 to the IEEE Member & Geographic Activities Department.

#### STEP # 7 **SUBMIT**

Submit the completed Form L-50, checklist, applicable bank signature cards and bank & investment statements to the IEEE Member & Geographic Activities Department.

If you e-mail the L-50 report, please make sure you mail the bank statements and the signed copy of the General Information and Certification Schedule.

**Submit via E-Mail by sending the report and support documents to:  
[financial-report@ieee.org](mailto:financial-report@ieee.org)**

Reports must be submitted by Friday, 22-February-2008. If meeting, officer and financial reports are postmarked by that date, your Unit will qualify for a 10% additional rebate.

**[Please visit this link for more information on the Rebates Schedule & Requirements](#)**

#### **Contact Information**

IEEE - Member and Geographic Activities Department - E-mail: [financial-report@ieee.org](mailto:financial-report@ieee.org)  
Telephone + 1 732 562 5516 - Fax +1 732 463 3653  
or call toll-free (USA/Canada) +1 800 678 4333, option 1, extension 5516



**IEEE FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

<b>UNIT NAME :</b>	<b>R10 - NEW SOUTH WALES (AUSC) -</b>	<b>SCHEDULE I - PAGE 1 OF 3</b>
<b>CHAPTER NAME :</b>	<b>CURRENCY :</b>	

**SCHEDULE I - RECEIPTS AND EXPENSES**

<b>SECTION A - RECEIPTS</b>			
	<b>A</b> CASH AMOUNTS	<b>B</b> ACCRUED AMOUNTS (*)	<b>C</b> TOTAL CASH (A+B)
<b>1.00 - CONTRIBUTIONS</b>			
1.10 Received from Individuals	-	-	-
1.20 Received from Corporations	-	-	-
1.30 Received from Foundations	-	-	-
<b>Total 1.00 - Contributions</b>	-	-	-
<b>2.00 - PROGRAM REVENUE</b>			
2.10 Meetings & Social Events	1,040.00	-	1,040.00
2.20 Publication Revenue	-	-	-
2.30 Advertising - IEEE	-	-	-
2.40 Advertising - Non-IEEE	-	-	-
2.50 Conference Revenue	3,514.31	-	3,514.31
2.60 Educational Activities	-	-	-
2.70 Professional Activities	-	-	-
2.80 Student Activities	-	-	-
2.90 Project Revenues	-	-	-
<b>Total 2.00 - Program Revenue</b>	<b>4,554.31</b>	-	<b>4,554.31</b>
<b>3.00 - OTHER RECEIPTS</b>			
3.10 Rebate from IEEE HQ	13,628.99	-	13,628.99
3.15 Regional Assessment	-	-	-
3.20 Region Receipts SCH III	-	-	-
3.30 Sections or Councils SCH III	-	-	-
3.32 Receipts from RAB, other Major Boards SCH III	-	-	-
3.33 Sections Congress Receipts	-	-	-
3.34 IEEE HQ & Societies SCH III	-	-	-
3.40 Interest	4,771.45	-	4,771.45
3.50 Dividends	4,660.49	-	4,660.49
3.60 Realized Gain/(Loss) on Sale of Investments SCH V-1	-		-
3.62 Unrealized Gain/(Loss) on Investments (Market Value) SCH V-1		-	-
3.65 Gain/(Loss) on Sale of Furniture & Equipment SCH V-2	-	-	-
3.70 Other (Describe) SCH III	-	-	-
<b>Total 3.00 - Other Receipts</b>	<b>23,060.93</b>	-	<b>23,060.93</b>
<b>Section A - Total Receipts</b>	<b>27,615.24</b>	-	<b>27,615.24</b>

(\*) ACCRUED AMOUNTS REFLECT REVENUE THAT HAS BEEN EARNED BEFORE 31 DECEMBER, BUT THE CASH HAS NOT BEEN RECEIVED, AND AN ACCOUNTS RECEIVABLE SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.





**IEEE FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

<b>UNIT NAME :</b>	<b>R10 - NEW SOUTH WALES (AUSC) -</b>	<b>SCHEDULE I - PAGE 2 OF 3</b>
<b>CHAPTER NAME :</b>	<b>CURRENCY :</b>	

**SCHEDULE I - RECEIPTS AND EXPENSES**

<b>SECTION B - EXPENSES</b>			
	<b>A</b> CASH AMOUNTS	<b>B</b> ACCRUED AMOUNTS (*)	<b>C</b> TOTAL CASH (A+B)
<b>4.00 - PROGRAM EXPENSES</b>			
4.10 Meetings & Social Events	9,250.81	-	9,250.81
4.20 Publication Expenses	5,003.09	-	5,003.09
4.30 Advertising - IEEE	-	-	-
4.40 Advertising - Non-IEEE	-	-	-
4.50 Conference Expenses	-	-	-
4.60 Educational Activities	-	-	-
4.70 Professional Activities	128.20	-	128.20
4.80 Student Activities	-	-	-
4.85 Grants and Awards	-	-	-
4.90 Other Program Expenses <span style="float:right">SCH IV</span>	4,420.00	-	4,420.00
<b>Total 4.00 - Program Expenses</b>	<b>18,802.10</b>	<b>-</b>	<b>18,802.10</b>
<b>5.00 - MANAGEMENT &amp; GENERAL EXPENSES</b>			
5.10 Occupancy	-	-	-
5.15 Sections Congress Expenses	-	-	-
5.20 Travel	2,685.74	-	2,685.74
5.30 Salaries	-	-	-
5.40 Payroll Taxes <span style="color:red">(attach copies of returns)</span> <span style="float:right">X</span>	-	-	-
5.50 Support to Sections/Chapters <span style="float:right">SCH IV</span>	900.08	-	900.08
5.52 Support to Regions <span style="float:right">SCH IV</span>	-	-	-
5.54 RAB / Major Board Expenses <span style="float:right">SCH IV</span>	-	-	-
5.56 IEEE HQ & Society Expenses <span style="float:right">SCH IV</span>	-	-	-
5.57 Depreciation on Furniture & Equipment <span style="float:right">SCH V-2</span>		-	-
5.60 Other Management & General Expenses <span style="float:right">SCH IV</span>	1,288.93	-	1,288.93
<b>Total 5.00 - Management &amp; General Expenses</b>	<b>4,874.75</b>	<b>-</b>	<b>4,874.75</b>
<b>6.00 - FUNDRAISING EXPENSES</b>			
6.10 Postage & Supplies	-	-	-
6.20 Other	-	-	-
<b>Total 6.00 - Fundraising Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Section B - Total Expenses</b>	<b>23,676.85</b>	<b>-</b>	<b>23,676.85</b>

**x** DENOTES THAT A SEPARATE ATTACHMENT MUST BE INCLUDED TO PROVIDE DETAILS FOR THIS LINE. OTHERWISE REFER TO THE SUPPORT SCHEDULE REFERRED TO UNDER THE ATTACHMENT COLUMN.

**(\*)** ACCRUED AMOUNTS REFLECT EXPENSES THAT HAVE BEEN INCURRED BEFORE DECEMBER 31, BUT THE CASH HAS NOT BEEN PAID, AND AN ACCOUNT PAYABLES SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.

**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

<b>UNIT NAME :</b>	<b>R10 - NEW SOUTH WALES (AUSC) -</b>	<b>SCHEDULE I - PAGE 3 OF 3</b>
<b>CHAPTER NAME :</b>	<b>CURRENCY :</b>	

**SCHEDULE I - RECEIPTS AND EXPENSES**

**SECTION C - RECEIPTS AND DISBURSEMENTS AFFECTING FIXED ASSETS, INVESTMENTS & LIABILITIES.**

		<b>A</b> CASH AMOUNTS	<b>B</b> ACCRUED AMOUNTS (*)	<b>C</b> TOTAL CASH (A+B)
<b>7.00 - Receipts</b>				
7.10	Sales of Furnishings & Equipment SCH V-2	-	-	-
7.20	Sales of Investments SCH V-1	-	-	-
7.30	Cash Rec'd - Loans and Advances (Receivable) SCH VI-1	-	-	-
7.35	Cash Rec'd - Loans & Advances (Payables) SCH VI-1	-	-	-
7.40	Cash Rec'd - Accounts Receivable SCH VI-2	-	-	-
<b>Total 7.00 - Other Receipts</b>		-	-	-
<b>8.00 - Disbursements</b>				
8.10	Purchases of Furnishings & Equipment SCH V-2	-	-	-
8.15	Purchases of Other Assets X	-	-	-
8.20	Purchases of Investments SCH V-1	4,660.49	-	4,660.49
8.30	Cash Paid to Others - Loans & Advances (Receivables) SCH VI-1	2,147.80	-	2,147.80
8.35	Cash Paid on Loans & Advances (Payables) SCH VI-1	-	-	-
8.40	Cash Paid on Accounts Payables SCH VI-2	-	-	-
<b>Total 8.00 - Other Cost or Expenses</b>		<b>6,808.29</b>	-	<b>6,808.29</b>
<b>Section C - Total Net Receipts or (Disbursements)</b>		<b>(6,808.29)</b>	-	<b>(6,808.29)</b>
<b>Section D - Total Net Receipts &amp; Expenses</b>		<b>(2,869.90)</b>	-	<b>(2,869.90)</b>
<b>Line E-1</b>	<b>Cash on Hand @ Beginning of Year (1)</b>	<b>29,533.03</b>		
<b>Line E-2</b>	<b>Total Cash on Hand @ End of Year</b>	<b>26,663.13</b>		

<b>(1)</b>	THE TOTAL IN THIS LINE MUST AGREE TO THE YEAR-END CASH ON HAND AS REPORTED ON LINE E-2, SCHEDULE I, PAGE 3 OF THE PRIOR YEAR L50 REPORT.
<b>x</b>	DENOTES THAT A SEPARATE ATTACHMENT MUST BE INCLUDED TO PROVIDE DETAILS OR SUPPORT FOR THE AMOUNT IN THIS LINE.
<b>(*)</b>	ACCRUED AMOUNTS REFLECT REVENUE OR EXPENSES THAT HAVE BEEN INCURRED IN THE CURRENT YEAR, BUT THE CASH HAS NOT BEEN RECEIVED OR PAID, AND AN ACCOUNT RECEIVABLES (EARNED REVENUE) OR ACCOUNT PAYABLES (INCURRED EXPENSES) SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.

# FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

**SCHEDULE II**

CHAPGER NAME :

CURRENCY :

## SCHEDULE II - STATEMENT OF NET WORTH

		A	B	C	D
		BEG. BALANCE	INCREASES	DECREASES	END BALANCE
<b>ASSETS</b>					
A.	CASH ACCOUNTS (*) SCH VII	29,533.03	-	2,869.90	26,663.13
B.	INVESTMENTS (*) SCH V-1	120,000.00	4,660.49	-	124,660.49
C.	LOANS AND ADVANCES ( RECEIVABLES ) SCH VI-1	10,000.00	2,147.80	-	12,147.80
	ACCOUNT RECEIVABLES SCH VI-2	-	-	-	-
D.	FURNITURE AND EQUIPMENT SCH V-2	-	-	-	-
	ACCUMMULATED DEPRECIATION (if applicable) SCH V-2	-	-	-	-
E.	OTHER ASSETS X				-
F.	<b>TOTAL ASSETS</b>	<b>159,533.03</b>	<b>6,808.29</b>	<b>2,869.90</b>	<b>163,471.42</b>
<b>LIABILITIES &amp; NET WORTH</b>					
G.	LOANS AND ADVANCES ( PAYABLES ) SCH VI-1	-	-	-	-
	ACCOUNT PAYABLES SCH VI-2	-	-	-	-
H.	OTHER LIABILITIES X				-
I.	<b>TOTAL LIABILITIES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
J.	<b>NET WORTH</b>	<b>159,533.03</b>	<b>6,808.29</b>	<b>2,869.90</b>	<b>163,471.42</b>

**x** DENOTES THAT A SEPARATE ATTACHMENT MUST BE INCLUDED TO PROVIDE DETAILS OR SUPPORT FOR THE AMOUNT IN THIS LINE.

**(\*)** DENOTES THAT YEAR END BANK STATEMENTS ARE REQUIRED AS PART OF THE SUPPORT FOR THESE AMOUNTS.

**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

**SCHEDULE III**

CHAPTER NAME :

CURRENCY :

**SCHEDULE III - ANALYSIS OF OTHER RECEIPTS**

THE TOTAL FOR EACH SECTION WILL BE TRANSFERRED TO SCH. I - PAGE 1 - RECEIPTS

<b>LINE 3.20 - REGION RECEIPTS</b>			<b>A</b>	<b>B (*)</b>
#	REGION	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
5				
6				
TOTAL Line 3.20			-	-

<b>LINE 3.30 - SECTION / COUNCIL RECEIPTS</b>			<b>A</b>	<b>B (*)</b>
#	SECTION/COUNCIL	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
5				
6				
TOTAL Line 3.30			-	-

<b>LINE 3.32 - REGIONAL ACTIVITIES BOARD / MAJOR BOARDS RECEIPTS</b>			<b>A</b>	<b>B (*)</b>
#	BOARD	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
5				
6				
TOTAL Line 3.32			-	-

<b>LINE 3.34 - IEEE HQ / SOCIETIES RECEIPTS</b>			<b>A</b>	<b>B (*)</b>
#	IEEE HQ / SOCIETY	PURPOSE	CASH AMOUNT	ACCRUED AMT
1			-	-
2				
3				
4				
5				
6				
TOTAL Line 3.34			-	-

<b>LINE 3.70 - OTHER MISCELLANEOUS RECEIPTS</b>			<b>A</b>	<b>B (*)</b>
#	ORGANIZATION	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
5				
6				
TOTAL Line 3.70			-	-

(\*) ACCRUED AMOUNTS REFLECT EXPENSES THAT HAVE BEEN INCURRED AS OF DECEMBER 31, BUT THE CASH HAS NOT BEEN PAID, AND AN ACCOUNT PAYABLES NEEDS TO BE REPORTED ON SCHEDULE VI, PAGE 2.

# FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

**SCHEDULE IV**

CHAPTER NAME :

CURRENCY :

## SCHEDULE IV - ANALYSIS OF PROGRAM EXPENSES & MANAGEMENT/GENERAL EXPENSES

THE TOTAL FOR EACH SECTION WILL BE TRANSFERRED TO SCH. I - PAGE 2 - DISBURSEMENTS

LINE 4.90 - OTHER PROGRAM EXPENSES			A	B (*)
#	ORGANIZATION (if applicable)	PURPOSE	CASH AMOUNT	ACCRUED AMT
1	Engineers Australia Sydney	lecture program	1,500.00	
2	Univ Sydney EE Foundation	membership of foundation	110.00	-
3	IEEE Australia Council	2006 levy	1,160.00	
4	IEAust	Engineering week 2007	1,650.00	
TOTAL Line 4.90			4,420.00	-

LINE 5.50 - SUPPORT TO SECTIONS & CHAPTERS			A	B (*)
#	SECTION / CHAPTER	PURPOSE	CASH AMOUNT	ACCRUED AMT
1	EMBS		66.13	
2	OCEAN		133.10	
3	ias/PELS/IES		518.00	
4	EDUCATION		182.85	
TOTAL Line 5.50			900.08	-

LINE 5.52 - SUPPORT TO REGIONS			A	B (*)
#	REGION	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
TOTAL Line 5.52			-	-

LINE 5.54 - RAB / MAJOR BOARD EXPENSES			A	B (*)
#	BOARD	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
TOTAL Line 5.54			-	-

LINE 5.56 - IEEE HQ / SOCIETY EXPENSES			A	B (*)
#	IEEE HQ / SOCIETY	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
TOTAL Line 5.56			-	-

LINE 5.60 - OTHER MANAGEMENT & GENERAL EXPENSES			A	B (*)
#	ORGANIZATION (if applicable)	PURPOSE	CASH AMOUNT	ACCRUED AMT
1		bank fees	51.00	
2		stationary	126.38	
3		other	1,111.55	
4				
TOTAL Line 5.60			1,288.93	-

(\*) ACCRUED AMOUNTS REFLECT EXPENSES THAT HAVE BEEN INCURRED BEFORE DECEMBER 31, BUT THE CASH HAS NOT BEEN PAID, AND AN ACCOUNT PAYABLES SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.



**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

<b>UNIT NAME :</b>	<b>R10 - NEW SOUTH WALES (AUSC) -</b>	<b>SCHEDULE V - PAGE 1 OF 2</b>
<b>CHAPTER NAME :</b>		<b>CURRENCY :</b>

**SCHEDULE V - ANALYSIS OF PURCHASES AND SALES ( INVESTMENTS )**

**COST BASIS - INVESTMENTS**

		<b>ANALYSIS OF INVESTMENTS ACTIVITY - COST BASIS</b>				<b>SALES OF INVESTMENTS</b>	
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
			ADD :	LESS :			
		COST BASIS BAL. @ BEG OF YEAR	PURCHASES, DIVIDENDS REINVESTED	SALES, COST BASIS OF INVESTMENTS	COT BASIS BAL. @ END OF YEAR	SALES PRICE GROSS AMOUNT RECEIVED	AMOUNT OF GAIN/(LOSS)
#	DESCRIPTION OF INVESTMENT						
1	IEEE LONG TERM INVESTMENT FUND	-	-		-		-
	<b>ADD NON-IEEE L/T INVESTMENTS :</b>						
2	Commonwealth Cash Management Trust	120,000.00	4,660.49		124,660.49		-
3					-		-
4					-		-
5					-		-
Totals:		120,000.00	4,660.49	-	124,660.49	-	-

**MARKET VALUE BASIS - INVESTMENTS**

		<b>ANALYSIS OF INVESTMENTS ACTIVITY - MARKET VALUE</b>					
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
			ADD :	LESS :			
		BALANCE @ BEG OF YEAR	PURCHASES, DIVIDENDS REINVESTED	SALES, COST BASIS OF INVESTMENTS	UNREALIZED GAINS	UNREALIZED LOSSES	BALANCE @ END OF YEAR
#	DESCRIPTION OF INVESTMENT						
1	IEEE LONG TERM INVESTMENT FUND						-
	<b>ADD NON-IEEE L/T INVESTMENTS :</b>						
2	Commonwealth Cash Management Trust	120,000.00	4,660.49				124,660.49
3							-
4							-
5							-
Totals:		120,000.00	4,660.49	-	-	-	124,660.49

PLEASE ATTACH TO THE L50 REPORT THE YEAR END STATEMENT FOR ANY INVESTMENT LISTED IN THIS SCHEDULE. THANK YOU.

**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

**UNIT NAME :**      **R10 - NEW SOUTH WALES (AUSC) -**

**SCHEDULE V - PAGE 2 OF 2**

**CHAPTER NAME :**

**CURRENCY :**

**SCHEDULE V - ANALYSIS OF PURCHASES AND SALES ( FURNITURE & OFFICE EQUIPMENT )**

**ANALYSIS OF PURCHASES, SALES & DEPRECIATION OF FURNITURE & EQUIPMENT**

		ANALYSIS OF FURNITURE & EQUIPMENT ACTIVITY				SALES OF FURN. & EQUIP.	
		A	B	C	D	E	F
			Add:	Less:			
		BALANCE @ BEG. OF YEAR	PURCHASES (AMOUNTS PAID)	SALES (COST BASIS)	BALANCE @ END OF YEAR	SALES PRICE (AMOUNT RECEIVED)	AMOUNT OF GAIN/(LOSS)
#	PURCHASE & SALES						
1					-		-
2					-		-
3					-		-
4					-		-
5					-		-
6					-		-
7					-		-
8					-		-
Totals:		-	-	-	-	-	-

		ANALYSIS OF FURNITURE & EQUIPMENT DEPRECIATION					
		A	B	C	D		
			Add:	Less:			
		BALANCE @ BEG OF YEAR	CURRENT YEAR DEPRECIATION	DEPRECIATION ON SALES	BALANCE @ END OF YEAR		
#	DEPRECIATION (if applicable)						
1					-		
2					-		
3					-		
4					-		
5					-		
6					-		
7					-		
8					-		
Totals:		-	-	-	-		



FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : R10 - NEW SOUTH WALES (AUSC) -

SCHEDULE VI - PAGE 1 OF 2

CHAPTER NAME :

CURRENCY :

SCHEDULE VI - ANALYSIS OF "CASH" LOANS & ADVANCES (RECEIVABLES / PAYABLES)

ANALYSIS OF "CASH" LOANS & ADVANCES (RECEIVABLES)

		A	B	E	F	G
			Add:	Less:	Less:	
		BALANCE @ BEG OF YEAR	LOANS (CASH PAID)	LOANS (CASH RECEIVED)	LOANS (CASH NOT RECEIVED)	BALANCE @ END OF YEAR
#	DESCRIPTION OF LOAN or ADVANCE (RECEIVABLE)					
1	Int Conf Wirelss Broadband seed funding (carry over fro	10,000.00		-		10,000.00
2	Australian Tax office (GST refund)		2,147.80			2,147.80
3						-
4						-
5						-
6						-
7						-
Totals:		10,000.00	2,147.80	-	-	12,147.80

ANALYSIS OF "CASH" LOANS & ADVANCES (PAYABLES)

		A	B	E	F	G
			Add:	Less:	Less:	
		BALANCE @ BEG OF YEAR	LOANS (CASH RECEIVED)	LOANS (CASH PAID)	LOANS (CASH NOT PAID)	BALANCE @ END OF YEAR
#	DESCRIPTION OF LOAN or ADVANCE (PAYABLE)					
1			-	-	-	-
2						-
3						-
4						-
5						-
6						-
7						-
Totals:		-	-	-	-	-



# FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

SCHEDULE V I - PAGE 2 OF 2

CHAPTER NAME :

CURRENCY :

## SCHEDULE VI - ANALYSIS OF "ACCRUED" ACCOUNTS RECEIVABLES & PAYABLES

### ANALYSIS OF "ACCRUED" ACCOUNT RECEIVABLES

#	DESCRIPTION OF LOAN or ADVANCE (RECEIVABLE)	A	B (*)	E	F	G
			Add:	Less:	Less:	
		BALANCE @ BEG OF YEAR	ACCRUED RECEIPTS (*)	CASH RECEIVED	CASH NOT RECEIVED	BALANCE @ END OF YEAR
1			-	-	-	-
2						-
3						-
4						-
5						-
6						-
Totals:		-	-	-	-	-

### ANALYSIS OF "ACCRUED" ACCOUNT PAYABLES

#	DESCRIPTION OF LOAN or ADVANCE (PAYABLE)	A	B (*)	E	F	G
			Add:	Less:	Less:	
		BALANCE @ BEG OF YEAR	ACCRUED EXPENSES (*)	CASH PAID ON PAYABLES	CASH NOT PAID ON PAYABLES	BALANCE @ END OF YEAR
1						-
2					-	-
3						-
4						-
5						-
6						-
Totals:		-	-	-	-	-

(\*) - The amounts in Column B, are not linked to the corresponding Income or Expense Category in Sche. I, Column B.  
Each amount needs to be manually added to the corresponding Income or Expense line(s).



# FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

SCHEDULE V II

CHAPTER NAME :

CURRENCY :

## SCHEDULE VII - RECONCILIATION OF CHECKBOOKS TO BANK STATEMENTS AS OF DECEMBER 31.

A. CHECKING ACCOUNTS :			A	B	C	D
			ACCT BALANCE PER UNIT'S CHECKBOOKS	OUTSTANDING CHECKS & DEBITS	OUTSTANDING DEPOSITS & CREDITS	ACCT BALANCE PER BANK STATEMENTS ( A + B - C )
LINE #	ACCOUNT #	BANK NAME				
1	06200012318151	Commonwealth bank	34,669.22	725.90		35,395.12
2	06200012318207	Commonwealth bank	-	-		-
3						-
4						-
5						-
6						-
Checking Accounts Total :			34,669.22	725.90	-	35,395.12
B. SAVINGS ACCOUNTS : (REGULAR SAVINGS, MM)						
			ACCT BALANCE PER UNIT'S CHECKBOOKS	OUTSTANDING CHECKS & DEBITS	OUTSTANDING DEPOSITS & CREDITS	ACCT BALANCE PER BANK STATEMENTS ( A + B - C )
LINE #	ACCOUNT #	BANK NAME				
1						-
2						-
3						-
4						-
Savings Accounts Total :			-	-	-	-
C. CD's / TIME DEPOSITS :						
			CD VALUE PER UNIT'S CHECKBOOKS	N/A	N/A	CD VALUE PER BANK STATEMENTS
LINE #	ACCOUNT # / DEPOSIT TERM	BANK NAME / MATURITY DATE				
1						-
	Term :	Maturity date :				
2						-
	Term :	Maturity date :				
3						-
	Term :	Maturity date :				
CD's/Time Deposits Total :			-	-	-	-
D. OTHER ACCOUNTS						
			ACCT BALANCE PER UNIT'S CHECKBOOKS			
LINE #	ACCOUNT TYPE					
1	PETTY CASH		-			
2	CUSTODY ACCOUNT ( if applicable )					
3	OTHER IEEE ACCOUNTS ( if applicable )					
4	REGIONAL ASSESSMENT ( if applicable )					
Other Accounts Totals :			-			
E. TOTAL CASH & DEPOSITS ( Checking, Savings, CD's and other )			34,669.22			

8,006.09 < Difference in the total cash reconciliation



**GEOGRAPHIC UNIT OFFICER'S CONFLICT OF INTEREST (COI) STATEMENT**

All Geographic Unit Chairs and Treasurers should complete the COI Statement Form. Any other unit officers that feel their personal involvements might represent a conflict of interest should also complete and submit this form.

( For any **YES** answer below, please provide an explanation in the space provided )

1. Are you or is any member of your immediate family affiliated with a business that supplies property, goods or services to IEEE or any business that is competitive with IEEE?

☐ YES ☒ NO

2. Do you or any member of your immediate family have a direct or indirect interest in a business that supplies property, goods or services

☐ YES ☒ NO

3. If you answered **YES** to Question 1 and/or 2 above; In the past 12 months, have you made a business decision on behalf of IEEE with

☐ YES ☐ NO

4. In the past 12 months, have you received any compensation, loan, gift, benefit or unusual hospitality from any supplier to IEEE?

☐ YES ☒ NO

5. Do you have any other business or personal relationships, not covered in your answers to Questions 1 through 4, above, that could

☐ YES ☒ NO

**IEEE PRINCIPLES OF BUSINESS CONDUCT COMPLIANCE CERTIFICATE**

I have read and understand the IEEE Principles of Business Conduct and will adhere to the standards as described.

I understand that a violation will subject me to appropriate disciplinary action.

☐ YES

The following are any potential violation in the statement of exception

Unit name : IEEE NSW , Australia

Officer Name : Nuala Ward

Officer's Title : Treasurer

Date : Sunday, 2 March 2008

### GEOGRAPHIC UNIT OFFICER'S CONFLICT OF INTEREST (COI) STATEMENT

All Geographic Unit Chairs and Treasurers should complete the COI Statement Form. Any other unit officers that feel their personal involvements might represent a conflict of interest should also complete and submit this form.

( For any **YES** answer below, please provide an explanation in the space provided )

1. Are you or is any member of your immediate family affiliated with a business that supplies property, goods or services to IEEE or any business that is competitive with IEEE?

☐ YES ☒ NO

2. Do you or any member of your immediate family have a direct or indirect interest in a business that supplies property, goods or services to IEEE or is in competition with IEEE?

☐ YES ☒ NO

3. If you answered **YES** to Question 1 and/or 2 above; In the past 12 months, have you made a business decision on behalf of IEEE with any business named in the responses to questions 1 and/or 2 above?

☐ YES ☐ NO

-N/A-

4. In the past 12 months, have you received any compensation, loan, gift, benefit or unusual hospitality from any supplier to IEEE?

☐ YES ☒ NO

5. Do you have any other business or personal relationships, not covered in your answers to Questions 1 through 4, above, that could appear to be a conflict of interest?

☒ YES ☐ NO

I also sit on the 2008 Engineers Australia ITEE Colege as a corresponding Board Member.

### IEEE PRINCIPLES OF BUSINESS CONDUCT COMPLIANCE CERTIFICATE

I have read and understand the IEEE Principles of Business Conduct and will adhere to the standards as described.  
I understand that a violation will subject me to appropriate disciplinary action. ☐ **YES**

The following are any potential violation in the statement of exception

-NA-

Unit name : NEW SOUTH WALES SECTION  
Officer Name : DAVID E BURGER  
Officer's Title : CHAIR 2008  
Date : Sunday, 30 March 2008



IEEE FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

CHECKLIST - Documents to be Returned (This Checklist must be returned with Form L-50)	
UNIT NAME :	R10 - NEW SOUTH WALES (AUSC) -
CHAPTER :	
<input type="checkbox"/>	2007/2008 Treasurer and Chair profiles have been completed and the General Information & Certification Schedule has been signed.
<input type="checkbox"/>	<b>Mark Consolidated or Non-Consolidated:</b>  <b>Consolidated Form L-50 Financial Report.</b>  We certify that this consolidated report includes all financial activity for the units that report administratively to the Council/Section.  <<<< OR >>>>  <input type="checkbox"/> <b>Non-Consolidated Form L-50 Financial Report.</b>  We certify that this report contains only the financial activity of the unit noted above. All other units required to submit an annual financial report are listed below.  1 2 3 4 5
<input type="checkbox"/>	Completed and separately submitted the Local Bank Accounts Disclosure Statement (required) (This is a separate form and is due by 31-January-2008)
<input type="checkbox"/>	Attached Local Bank Account Statements as of 31 st December (required) (Do not attach or send Year End Statements for Concentration Banking Accounts)
<input type="checkbox"/>	Attached Investment Statements as of 31 st December (required if applicable) (Do not attach or send Year End Statements for Concentration Banking Accounts)
<input type="checkbox"/>	Completed Schedule I - Receipts and Expenses: Pages 1 through 3 (required)
<input type="checkbox"/>	Completed Schedule II - Statement of Net Worth. (required)
<input type="checkbox"/>	Completed Support Schedule III - Schedule of Other Receipts (if required)
<input type="checkbox"/>	Completed Support Schedule IV - Schedule of Other Program/Mgmt/General Expenses (if required)
<input type="checkbox"/>	Completed Schedule V - Page 1 & 2 : Analysis of Purchases & Sales: Investments, Assets & Depreciation (if required)
<input type="checkbox"/>	Completed Schedule VI - Page 1 & 2 : Analysis of Loans/ Advances and Accounts Receivable/ Payables (if required)
<input type="checkbox"/>	Completed Schedule VII - Reconciliation of Checkbook or Register to Bank Statements (required)
<input type="checkbox"/>	Completed the General Information and Certification Schedule (required)
<input type="checkbox"/>	Completed the Conflict of Interest Statement (COI) and Business Conduct ((required)
If send via regular mail or fax, send the above documents to the following address, or fax numbers:  IEEE - Member and Geographic Activities Department - Attn: Finance Administrator 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08854-1331 Fax Number: +1 732 463 3653	
TO BE COMPLETED AND SUBMITTED TO IEEE MEMBER AND GEOGRAPHIC ACTIVITIES BY FRIDAY, 22 FEBRUARY 2008	

## 2007 ANNUAL GEOGRAPHIC UNIT FINANCIAL REPORT

### INDEX

<b>1</b>		<b>Seven (7) Easy Steps to completing your L50 Financial Report</b>
<b>2</b>	<b>Schedule I</b>	<b>Receipts and Expenses</b> Page 1 of 3: Receipts ( <a href="#">Section A</a> ) Page 2 of 3: Expenses ( <a href="#">Section B</a> ) Page 3 of 3: Net Receipts (Expenses) and Reconciliation to Cash Accounts ( <a href="#">Section C</a> )
<b>3</b>	<b>Schedule II</b>	<b>Statement of Net Worth</b> Assets, Liabilities and Net Worth
<b>4</b>	<b>Schedule III</b>	<b>Analysis of Other Receipts (Line 3.00 - Schedule I)</b> (Line 3.00 - Schedule I, page 1)
<b>5</b>	<b>Schedule IV</b>	<b>Analysis of Program Expenses and Management / General Expenses.</b> (Line 5.00-Schedule I, page 2)
<b>6</b>	<b>Schedule V</b>	<b>Analysis of Purchases and Sales</b> Page 1: Investments Page 2 :Furniture and Equipment
<b>7</b>	<b>Schedule VI</b>	<b>Analysis of Loans, Advances &amp; Accounts Receivables and Payables</b> Page 1: Analysis of Cash Loans and Advances ( Receivables & Payables ) Page 2: Analysis of Accrued Account Receivables and Account Payables
<b>8</b>	<b>Schedule VII</b>	<b>Reconciliation of Checkbook to Bank Statements</b>
<b>9</b>		<b>General Information and Certification Schedule</b>
<b>10</b>		<b>Geographic Unit Officer's Conflict of Interest (COI) Disclosure Statement, Principles of Business Conduct Compliance Certificate (PoBC)</b>
<b>11</b>		<b>Form L-50 Checklist</b>



## IEEE FINANCIAL REPORT FOR THE YEAR ENDING 31 DECEMBER 2007

### SEVEN (7) EASY STEPS TO COMPLETING YOUR L-50 FINANCIAL REPORT

#### STEP # 1 PREPARE SCHEDULE I - RECEIPTS & EXPENSES (3 PAGES)

As you prepare Schedule I, note if any of the receipts or expenses would require you to prepare support Schedules III, IV, V or VI. If yes, complete those schedules and transfer the balances to Schedule I as instructed.

#### STEP # 2 PREPARE SCHEDULE VII - RECONCILIATION OF CHECKBOOK TO BANK STATEMENTS

The total of Column A in Schedule VII must agree with the total in Line A, Column D of Schedule II.

#### STEP # 3 REVIEW SCHEDULE II - STATEMENT OF NET WORTH

As you review Schedule II, note if any of the assets or liabilities would require you to prepare support Schedule V or VI. If yes, complete those schedules as instructed.

#### STEP # 4 PREPARE THE GENERAL INFORMATION & CERTIFICATION SCHEDULE (Required), THE CONFLICT OF INTEREST DISCLOSURE STATEMENT (COI) (Required) AND PRINCIPLES OF BUSINESS CONDUCT COMPLIANCE CERTIFICATE (Required)

On the General Information and Certification Schedule, make sure the Treasurer and Chair Profiles for 2007 and 2008 are completed and signed and that the Audit, Registration and Tax questions have been addressed.

#### STEP # 5 PREPARE THE CHECKLIST (MUST BE INCLUDED WITH THE L50 REPORT)

Prepare the Checklist to confirm that all of the necessary schedules and materials have been provided for submission to the IEEE Member and Geographic Activities Department.

#### STEP # 6 PHOTOCOPY FOR YOUR RECORDS

Photocopy all of the prepared schedules, checklist, bank and/or investment statements for your file copy in the event that there are questions asked subsequent to submitting the L-50 to the IEEE Member & Geographic Activities Department.

#### STEP # 7 SUBMIT

Submit the completed Form L-50, checklist, applicable bank signature cards and bank & investment statements to the IEEE Member & Geographic Activities Department.

If you e-mail the L-50 report, please make sure you mail the bank statements and the signed copy of the General Information and Certification Schedule.

**Submit via E-Mail by sending the report and support documents to:**  
**[financial-report@ieee.org](mailto:financial-report@ieee.org)**

Reports must be submitted by Friday, 22-February-2008. If meeting, officer and financial reports are postmarked by that date, your Unit will qualify for a 10% additional rebate.

**[Please visit this link for more information on the Rebates Schedule & Requirements](#)**

#### Contact Information

IEEE - Member and Geographic Activities Department - E-mail: [financial-report@ieee.org](mailto:financial-report@ieee.org)  
Telephone + 1 732 562 5516 - Fax +1 732 463 3653  
or call toll-free (USA/Canada) +1 800 678 4333, option 1, extension 5516





**IEEE FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

<b>UNIT NAME :</b>	<b>R10 - NEW SOUTH WALES (AUSC) -</b>	<b>SCHEDULE I - PAGE 1 OF 3</b>
<b>CHAPTER NAME :</b>	<b>CURRENCY :</b>	

**SCHEDULE I - RECEIPTS AND EXPENSES**

<b>SECTION A - RECEIPTS</b>			
	<b>A</b> CASH AMOUNTS	<b>B</b> ACCRUED AMOUNTS (*)	<b>C</b> TOTAL CASH (A+B)
<b>1.00 - CONTRIBUTIONS</b>			
1.10 Received from Individuals	-	-	-
1.20 Received from Corporations	-	-	-
1.30 Received from Foundations	-	-	-
<b>Total 1.00 - Contributions</b>	-	-	-
<b>2.00 - PROGRAM REVENUE</b>			
2.10 Meetings & Social Events	690.00	-	690.00
2.20 Publication Revenue	-	-	-
2.30 Advertising - IEEE	400.00	-	400.00
2.40 Advertising - Non-IEEE	-	-	-
2.50 Conference Revenue	10,000.00	-	10,000.00
2.60 Educational Activities	-	-	-
2.70 Professional Activities	-	-	-
2.80 Student Activities	-	-	-
2.90 Project Revenues	-	-	-
<b>Total 2.00 - Program Revenue</b>	<b>11,090.00</b>	-	<b>11,090.00</b>
<b>3.00 - OTHER RECEIPTS</b>			
3.10 Rebate from IEEE HQ	13,717.95	-	13,717.95
3.15 Regional Assessment	-	-	-
3.20 Region Receipts SCH III	3,100.00	-	3,100.00
3.30 Sections or Councils SCH III	-	-	-
3.32 Receipts from RAB, other Major Boards SCH III	-	-	-
3.33 Sections Congress Receipts	-	-	-
3.34 IEEE HQ & Societies SCH III	-	-	-
3.40 Interest	207.16	-	207.16
3.50 Dividends	-	-	-
3.60 Realized Gain/(Loss) on Sale of Investments SCH V-1	-		-
3.62 Unrealized Gain/(Loss) on Investments (Market Value) SCH V-1		-	-
3.65 Gain/(Loss) on Sale of Furniture & Equipment SCH V-2	-	-	-
3.70 Other (Describe) SCH III	-	-	-
<b>Total 3.00 - Other Receipts</b>	<b>17,025.11</b>	-	<b>17,025.11</b>
<b>Section A - Total Receipts</b>	<b>28,115.11</b>	-	<b>28,115.11</b>

(\*) ACCRUED AMOUNTS REFLECT REVENUE THAT HAS BEEN EARNED BEFORE 31 DECEMBER, BUT THE CASH HAS NOT BEEN RECEIVED, AND AN ACCOUNTS RECEIVABLE SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.



**IEEE FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

<b>UNIT NAME :</b>	<b>R10 - NEW SOUTH WALES (AUSC) -</b>	<b>SCHEDULE I - PAGE 2 OF 3</b>
<b>CHAPTER NAME :</b>	<b>CURRENCY :</b>	

**SCHEDULE I - RECEIPTS AND EXPENSES**

<b>SECTION B - EXPENSES</b>			
	<b>A</b> CASH AMOUNTS	<b>B</b> ACCRUED AMOUNTS (*)	<b>C</b> TOTAL CASH (A+B)
<b>4.00 - PROGRAM EXPENSES</b>			
4.10 Meetings & Social Events	3,059.15	-	3,059.15
4.20 Publication Expenses	3,122.38	-	3,122.38
4.30 Advertising - IEEE	-	-	-
4.40 Advertising - Non-IEEE	-	-	-
4.50 Conference Expenses	-	-	-
4.60 Educational Activities	-	-	-
4.70 Professional Activities	-	-	-
4.80 Student Activities	1,801.06	-	1,801.06
4.85 Grants and Awards	-	-	-
4.90 Other Program Expenses <span style="float:right">SCH IV</span>	4,764.80	-	4,764.80
<b>Total 4.00 - Program Expenses</b>	<b>12,747.39</b>	<b>-</b>	<b>12,747.39</b>
<b>5.00 - MANAGEMENT &amp; GENERAL EXPENSES</b>			
5.10 Occupancy	44.00	-	44.00
5.15 Sections Congress Expenses	10,966.11	-	10,966.11
5.20 Travel	1,874.94	-	1,874.94
5.30 Salaries	-	-	-
5.40 Payroll Taxes (attach copies of returns) <span style="float:right">X</span>	-	-	-
5.50 Support to Sections/Chapters <span style="float:right">SCH IV</span>	2,553.09	-	2,553.09
5.52 Support to Regions <span style="float:right">SCH IV</span>	-	-	-
5.54 RAB / Major Board Expenses <span style="float:right">SCH IV</span>	-	-	-
5.56 IEEE HQ & Society Expenses <span style="float:right">SCH IV</span>	-	-	-
5.57 Depreciation on Furniture & Equipment <span style="float:right">SCH V-2</span>		-	-
5.60 Other Management & General Expenses <span style="float:right">SCH IV</span>	12.50	-	12.50
<b>Total 5.00 - Management &amp; General Expenses</b>	<b>15,450.64</b>	<b>-</b>	<b>15,450.64</b>
<b>6.00 - FUNDRAISING EXPENSES</b>			
6.10 Postage & Supplies	42.50	-	42.50
6.20 Other	-	-	-
<b>Total 6.00 - Fundraising Expenses</b>	<b>42.50</b>	<b>-</b>	<b>42.50</b>
<b>Section B - Total Expenses</b>	<b>28,240.53</b>	<b>-</b>	<b>28,240.53</b>

**x** DENOTES THAT A SEPARATE ATTACHMENT MUST BE INCLUDED TO PROVIDE DETAILS FOR THIS LINE. OTHERWISE REFER TO THE SUPPORT SCHEDULE REFERRED TO UNDER THE ATTACHMENT COLUMN.

**(\*)** ACCRUED AMOUNTS REFLECT EXPENSES THAT HAVE BEEN INCURRED BEFORE DECEMBER 31, BUT THE CASH HAS NOT BEEN PAID, AND AN ACCOUNT PAYABLES SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.

**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**
**UNIT NAME :** R10 - NEW SOUTH WALES (AUSC) -

**SCHEDULE I - PAGE 3 OF 3**
**CHAPTER NAME :**
**CURRENCY :**
**SCHEDULE I - RECEIPTS AND EXPENSES**
**SECTION C - RECEIPTS AND DISBURSEMENTS AFFECTING FIXED ASSETS, INVESTMENTS & LIABILITIES.**

			<b>A</b> CASH AMOUNTS	<b>B</b> ACCRUED AMOUNTS (*)	<b>C</b> TOTAL CASH (A+B)
<b>7.00 - Receipts</b>					
7.10	Sales of Furnishings & Equipment	SCH V-2	-	-	-
7.20	Sales of Investments	SCH V-1	131,446.78	-	131,446.78
7.30	Cash Rec'd - Loans and Advances (Receivable)	SCH VI-1	10,112.00	-	10,112.00
7.35	Cash Rec'd - Loans & Advances (Payables)	SCH VI-1	-	-	-
7.40	Cash Rec'd - Accounts Receivable	SCH VI-2	-	-	-
<b>Total 7.00 - Other Receipts</b>			<b>141,558.78</b>	<b>-</b>	<b>141,558.78</b>
<b>8.00 - Disbursements</b>					
8.10	Purchases of Furnishings & Equipment	SCH V-2	-	-	-
8.15	Purchases of Other Assets	X	-	-	-
8.20	Purchases of Investments	SCH V-1	9,733.52	-	9,733.52
8.30	Cash Paid to Others - Loans & Advances (Receivables)	SCH VI-1	1,436.00	-	1,436.00
8.35	Cash Paid on Loans & Advances (Payables)	SCH VI-1	-	-	-
8.40	Cash Paid on Accounts Payables	SCH VI-2	-	-	-
<b>Total 8.00 - Other Cost or Expenses</b>			<b>11,169.52</b>	<b>-</b>	<b>11,169.52</b>
<b>Section C - Total Net Receipts or (Disbursements)</b>			<b>130,389.26</b>	<b>-</b>	<b>130,389.26</b>
<b>Section D - Total Net Receipts &amp; Expenses</b>			<b>130,263.84</b>	<b>-</b>	<b>130,263.84</b>
<b>Line E-1</b>	<b>Cash on Hand @ Beginning of Year</b>	<b>( 1 )</b>	<b>26,663.51</b>		
<b>Line E-2</b>	<b>Total Cash on Hand @ End of Year</b>		<b>156,927.35</b>		

- ( 1 )** THE TOTAL IN THIS LINE MUST AGREE TO THE YEAR-END CASH ON HAND AS REPORTED ON LINE E-2, SCHEDULE I, PAGE 3 OF THE PRIOR YEAR L50 REPORT.
- x** DENOTES THAT A SEPARATE ATTACHMENT MUST BE INCLUDED TO PROVIDE DETAILS OR SUPPORT FOR THE AMOUNT IN THIS LINE.
- ( \* )** ACCRUED AMOUNTS REFLECT REVENUE OR EXPENSES THAT HAVE BEEN INCURRED IN THE CURRENT YEAR, BUT THE CASH HAS NOT BEEN RECEIVED OR PAID, AND AN ACCOUNT RECEIVABLES (EARNED REVENUE) OR ACCOUNT PAYABLES (INCURRED EXPENSES) SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.

# FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

SCHEDULE II

CHAPGER NAME :

CURRENCY :

## SCHEDULE II - STATEMENT OF NET WORTH

		A	B	C	D
		BEG. BALANCE	INCREASES	DECREASES	END BALANCE
<b>ASSETS</b>					
A.	CASH ACCOUNTS (*) SCH VII	26,663.51	130,263.84	-	156,927.35
B.	INVESTMENTS (*) SCH V-1	121,713.26	9,733.52	131,446.78	-
C.	LOANS AND ADVANCES ( RECEIVABLES ) SCH VI-1	12,147.80	1,436.00	10,112.00	3,471.80
	ACCOUNT RECEIVABLES SCH VI-2	-	-	-	-
D.	FURNITURE AND EQUIPMENT SCH V-2	-	-	-	-
	ACCUMMULATED DEPRECIATION (if applicable) SCH V-2	-	-	-	-
E.	OTHER ASSETS X				-
F.	<b>TOTAL ASSETS</b>	<b>160,524.57</b>	<b>141,433.36</b>	<b>141,558.78</b>	<b>160,399.15</b>
<b>LIABILITIES &amp; NET WORTH</b>					
G.	LOANS AND ADVANCES ( PAYABLES ) SCH VI-1	-	-	-	-
	ACCOUNT PAYABLES SCH VI-2	-	-	-	-
H.	OTHER LIABILITIES X				-
I.	<b>TOTAL LIABILITIES</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
J.	<b>NET WORTH</b>	<b>160,524.57</b>	<b>141,433.36</b>	<b>141,558.78</b>	<b>160,399.15</b>

**x** DENOTES THAT A SEPARATE ATTACHMENT MUST BE INCLUDED TO PROVIDE DETAILS OR SUPPORT FOR THE AMOUNT IN THIS LINE.

**(\*)** DENOTES THAT YEAR END BANK STATEMENTS ARE REQUIRED AS PART OF THE SUPPORT FOR THESE AMOUNTS.

# FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

SCHEDULE III

CHAPTER NAME :

CURRENCY :

## SCHEDULE III - ANALYSIS OF OTHER RECEIPTS

THE TOTAL FOR EACH SECTION WILL BE TRANSFERRED TO SCH. I - PAGE 1 - RECEIPTS

LINE 3.20 - REGION RECEIPTS			A	B (*)
#	REGION	PURPOSE	CASH AMOUNT	ACCRUED AMT
1	Asia Pacific	David Burger reimbursement of travel costs to Sections Congress - \$15	1,500.00	
2	Asia Pacific	Iain Collings reimbursement of travel costs to IEEE APCC conference- \$	1,600.00	
3				
4				
5				
6				
TOTAL Line 3.20			3,100.00	-

LINE 3.30 - SECTION / COUNCIL RECEIPTS			A	B (*)
#	SECTION/COUNCIL	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
5				
6				
TOTAL Line 3.30			-	-

LINE 3.32 - REGIONAL ACTIVITIES BOARD / MAJOR BOARDS RECEIPTS			A	B (*)
#	BOARD	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
5				
6				
TOTAL Line 3.32			-	-

LINE 3.34 - IEEE HQ / SOCIETIES RECEIPTS			A	B (*)
#	IEEE HQ / SOCIETY	PURPOSE	CASH AMOUNT	ACCRUED AMT
1			-	-
2				
3				
4				
5				
6				
TOTAL Line 3.34			-	-

LINE 3.70 - OTHER MISCELLANEOUS RECEIPTS			A	B (*)
#	ORGANIZATION	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
5				
6				
TOTAL Line 3.70			-	-

(\*) ACCRUED AMOUNTS REFLECT EXPENSES THAT HAVE BEEN INCURRED AS OF DECEMBER 31, BUT THE CASH HAS NOT BEEN PAID, AND AN ACCOUNT PAYABLES NEEDS TO BE REPORTED ON SCHEDULE VI, PAGE 2.

# FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : **R10 - NEW SOUTH WALES (AUSC) -**

**SCHEDULE IV**

CHAPTER NAME :

CURRENCY :

## SCHEDULE IV - ANALYSIS OF PROGRAM EXPENSES & MANAGEMENT/GENERAL EXPENSES

THE TOTAL FOR EACH SECTION WILL BE TRANSFERRED TO SCH. I - PAGE 2 - DISBURSEMENTS

LINE 4.90 - OTHER PROGRAM EXPENSES			A	B (*)
#	ORGANIZATION (if applicable)	PURPOSE	CASH AMOUNT	ACCRUED AMT
1	Engineers Australia Sydney	lecture program	1,500.00	
2	Awards& More	IEEE pens for AGM	470.80	-
3	IEEE Australia Council	2007 levy	1,144.00	
4	IEAust	Engineering week 2008	1,650.00	
TOTAL Line 4.90			4,764.80	-

LINE 5.50 - SUPPORT TO SECTIONS & CHAPTERS			A	B (*)
#	SECTION / CHAPTER	PURPOSE	CASH AMOUNT	ACCRUED AMT
1	Commsoc	IEEE DL visit - Norman Beaulieu	765.50	
2	GOLD	GOLD Function	499.62	
3	PES	Prof Rinkeviciene visit	1,287.97	
4				
TOTAL Line 5.50			2,553.09	-

LINE 5.52 - SUPPORT TO REGIONS			A	B (*)
#	REGION	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
TOTAL Line 5.52			-	-

LINE 5.54 - RAB / MAJOR BOARD EXPENSES			A	B (*)
#	BOARD	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
TOTAL Line 5.54			-	-

LINE 5.56 - IEEE HQ / SOCIETY EXPENSES			A	B (*)
#	IEEE HQ / SOCIETY	PURPOSE	CASH AMOUNT	ACCRUED AMT
1				
2				
3				
4				
TOTAL Line 5.56			-	-

LINE 5.60 - OTHER MANAGEMENT & GENERAL EXPENSES			A	B (*)
#	ORGANIZATION (if applicable)	PURPOSE	CASH AMOUNT	ACCRUED AMT
1	Commonwealth bank	foreign exchange fee for cheque - commonwealth bank	10.00	
2	Commonwealth bank	bank statement fee	2.50	
3				
4				
TOTAL Line 5.60			12.50	-

(\*) ACCRUED AMOUNTS REFLECT EXPENSES THAT HAVE BEEN INCURRED BEFORE DECEMBER 31, BUT THE CASH HAS NOT BEEN PAID, AND AN ACCOUNT PAYABLES SHOULD BE REPORTED ON SCHEDULE VI, PAGE 2.



**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

<b>UNIT NAME :</b>	<b>R10 - NEW SOUTH WALES (AUSC) -</b>	<b>SCHEDULE V - PAGE 1 OF 2</b>
<b>CHAPTER NAME :</b>		<b>CURRENCY :</b>

**SCHEDULE V - ANALYSIS OF PURCHASES AND SALES ( INVESTMENTS )**

**COST BASIS - INVESTMENTS**

#	DESCRIPTION OF INVESTMENT	ANALYSIS OF INVESTMENTS ACTIVITY - COST BASIS				SALES OF INVESTMENTS	
		A	B	C	D	E	F
			ADD :	LESS :			
		COST BASIS BAL. @ BEG OF YEAR	PURCHASES, DIVIDENDS REINVESTED	SALES, COST BASIS OF INVESTMENTS	COT BASIS BAL. @ END OF YEAR	SALES PRICE GROSS AMOUNT RECEIVED	AMOUNT OF GAIN/(LOSS)
1	IEEE LONG TERM INVESTMENT FUND	-	-		-		-
	<b>ADD NON-IEEE L/T INVESTMENTS :</b>						
2		-	-		-		-
3					-		-
4					-		-
5					-		-
Totals:		-	-	-	-	-	-

**MARKET VALUE BASIS - INVESTMENTS**

#	DESCRIPTION OF INVESTMENT	ANALYSIS OF INVESTMENTS ACTIVITY - MARKET VALUE					
		A	B	C	D	E	F
			ADD :	LESS :			
		BALANCE @ BEG OF YEAR	PURCHASES, DIVIDENDS REINVESTED	SALES, COST BASIS OF INVESTMENTS	UNREALIZED GAINS	UNREALIZED LOSSES	BALANCE @ END OF YEAR
1	IEEE LONG TERM INVESTMENT FUND						-
	<b>ADD NON-IEEE L/T INVESTMENTS :</b>						
2	Commonwealth Cash Management Trust	121,713.26	9,733.52	131,446.78	-		-
3							-
4							-
5							-
Totals:		121,713.26	9,733.52	131,446.78	-	-	-

PLEASE ATTACH TO THE L50 REPORT THE YEAR END STATEMENT FOR ANY INVESTMENT LISTED IN THIS SCHEDULE. THANK YOU.

**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

**UNIT NAME :**      **R10 - NEW SOUTH WALES (AUSC) -**

**SCHEDULE V - PAGE 2 OF 2**

**CHAPTER NAME :**

**CURRENCY :**

**SCHEDULE V - ANALYSIS OF PURCHASES AND SALES ( FURNITURE & OFFICE EQUIPMENT )**

**ANALYSIS OF PURCHASES, SALES & DEPRECIATION OF FURNITURE & EQUIPMENT**

		ANALYSIS OF FURNITURE & EQUIPMENT ACTIVITY				SALES OF FURN. & EQUIP.	
		A	B	C	D	E	F
			Add:	Less:			
		BALANCE @ BEG. OF YEAR	PURCHASES (AMOUNTS PAID)	SALES (COST BASIS)	BALANCE @ END OF YEAR	SALES PRICE (AMOUNT RECEIVED)	AMOUNT OF GAIN/(LOSS)
#	PURCHASE & SALES						
1					-		-
2					-		-
3					-		-
4					-		-
5					-		-
6					-		-
7					-		-
8					-		-
Totals:		-	-	-	-	-	-

		ANALYSIS OF FURNITURE & EQUIPMENT DEPRECIATION					
		A	B	C	D		
			Add:	Less:			
		BALANCE @ BEG OF YEAR	CURRENT YEAR DEPRECIATION	DEPRECIATION ON SALES	BALANCE @ END OF YEAR		
#	DEPRECIATION (if applicable)						
1					-		
2					-		
3					-		
4					-		
5					-		
6					-		
7					-		
8					-		
Totals:		-	-	-	-		





**FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007**

**UNIT NAME :**      **R10 - NEW SOUTH WALES (AUSC) -**

**SCHEDULE VI I - PAGE 1 OF 2**

**CHAPTER NAME :**

**CURRENCY :**

**SCHEDULE VI - ANALYSIS OF "CASH" LOANS & ADVANCES (RECEIVABLES / PAYABLES)**

**ANALYSIS OF "CASH" LOANS & ADVANCES (RECEIVABLES)**

#	DESCRIPTION OF LOAN or ADVANCE (RECEIVABLE)	<b>A</b>	<b>B</b>	<b>E</b>	<b>F</b>	<b>G</b>
			<b>Add:</b>	<b>Less:</b>	<b>Less:</b>	
		BALANCE @ BEG OF YEAR	LOANS (CASH PAID)	LOANS (CASH RECEIVED)	LOANS (CASH NOT RECEIVED)	BALANCE @ END OF YEAR
1	Int Conf Wirelss Broadband seed funding (carry over fro	10,000.00	-	10,000.00		-
2	Australian Tax office (GST refund)	2,147.80	1,436.00	112.00		3,471.80
3						-
4						-
5						-
6						-
7						-
Totals:		12,147.80	1,436.00	10,112.00	-	3,471.80

**ANALYSIS OF "CASH" LOANS & ADVANCES (PAYABLES)**

#	DESCRIPTION OF LOAN or ADVANCE (PAYABLE)	<b>A</b>	<b>B</b>	<b>E</b>	<b>F</b>	<b>G</b>
			<b>Add:</b>	<b>Less:</b>	<b>Less:</b>	
		BALANCE @ BEG OF YEAR	LOANS (CASH RECEIVED)	LOANS (CASH PAID)	LOANS (CASH NOT PAID)	BALANCE @ END OF YEAR
1			-	-	-	-
2						-
3						-
4						-
5						-
6						-
7						-
Totals:		-	-	-	-	-

FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : R10 - NEW SOUTH WALES (AUSC) -

SCHEDULE V I - PAGE 2 OF 2

CHAPTER NAME :

CURRENCY :

SCHEDULE VI - ANALYSIS OF "ACCRUED" ACCOUNTS RECEIVABLES & PAYABLES

ANALYSIS OF "ACCRUED" ACCOUNT RECEIVABLES

#	DESCRIPTION OF LOAN or ADVANCE (RECEIVABLE)	A	B (*)	E	F	G
			Add:	Less:	Less:	
		BALANCE @ BEG OF YEAR	ACCRUED RECEIPTS (*)	CASH RECEIVED	CASH NOT RECEIVED	BALANCE @ END OF YEAR
1			-	-	-	-
2						-
3						-
4						-
5						-
6						-
Totals:		-	-	-	-	-

ANALYSIS OF "ACCRUED" ACCOUNT PAYABLES

#	DESCRIPTION OF LOAN or ADVANCE (PAYABLE)	A	B (*)	E	F	G
			Add:	Less:	Less:	
		BALANCE @ BEG OF YEAR	ACCRUED EXPENSES (*)	CASH PAID ON PAYABLES	CASH NOT PAID ON PAYABLES	BALANCE @ END OF YEAR
1						-
2					-	-
3						-
4						-
5						-
6						-
Totals:		-	-	-	-	-

(\*) - The amounts in Column B, are not linked to the corresponding Income or Expense Category in Sche. I, Column B.  
Each amount needs to be manually added to the corresponding Income or Expense line(s).



FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

UNIT NAME : R10 - NEW SOUTH WALES (AUSC) -

SCHEDULE V II

CHAPTER NAME :

CURRENCY :

SCHEDULE VII - RECONCILIATION OF CHECKBOOKS TO BANK STATEMENTS AS OF DECEMBER 31.

A. CHECKING ACCOUNTS :			A	B	C	D
			ACCT BALANCE PER UNIT'S CHECKBOOKS	OUTSTANDING CHECKS & DEBITS	OUTSTANDING DEPOSITS & CREDITS	ACCT BALANCE PER BANK STATEMENTS ( A + B - C )
LINE #	ACCOUNT #	BANK NAME				
1	06200012318151	Commonwealth bank	31,923.91	-		31,923.91
2	06200012318207	Commonwealth bank	131,446.78	-		131,446.78
3						-
4						-
5						-
6						-
Checking Accounts Total :			163,370.69	-	-	163,370.69
B. SAVINGS ACCOUNTS : (REGULAR SAVINGS, MM)						
			ACCT BALANCE PER UNIT'S CHECKBOOKS	OUTSTANDING CHECKS & DEBITS	OUTSTANDING DEPOSITS & CREDITS	ACCT BALANCE PER BANK STATEMENTS ( A + B - C )
LINE #	ACCOUNT #	BANK NAME				
1						-
2						-
3						-
4						-
Savings Accounts Total :			-	-	-	-
C. CD's / TIME DEPOSITS :						
			CD VALUE PER UNIT'S CHECKBOOKS	N/A	N/A	CD VALUE PER BANK STATEMENTS
LINE #	ACCOUNT # / DEPOSIT TERM	BANK NAME / MATURITY DATE				
1						-
	Term :	Maturity date :				
2						-
	Term :	Maturity date :				
3						-
	Term :	Maturity date :				
CD's/Time Deposits Total :			-	-	-	-
D. OTHER ACCOUNTS						
			ACCT BALANCE PER UNIT'S CHECKBOOKS			
LINE #	ACCOUNT TYPE					
1	PETTY CASH		-			
2	CUSTODY ACCOUNT ( if applicable )					
3	OTHER IEEE ACCOUNTS ( if applicable )					
4	REGIONAL ASSESSMENT ( if applicable )					
Other Accounts Totals :			-			
E. TOTAL CASH & DEPOSITS ( Checking, Savings, CD's and other )			163,370.69			

6,443.34 < Difference in the total cash reconciliation



**GEOGRAPHIC UNIT OFFICER'S CONFLICT OF INTEREST (COI) STATEMENT**

All Geographic Unit Chairs and Treasurers should complete the COI Statement Form. Any other unit officers that feel their personal involvements might represent a conflict of interest should also complete and submit this form.

( For any **YES** answer below, please provide an explanation in the space provided )

1. Are you or is any member of your immediate family affiliated with a business that supplies property, goods or services to IEEE or any business that is competitive with IEEE?

☐ YES ☒ NO

2. Do you or any member of your immediate family have a direct or indirect interest in a business that supplies property, goods or services

☐ YES ☒ NO

3. If you answered **YES** to Question 1 and/or 2 above; In the past 12 months, have you made a business decision on behalf of IEEE with

☐ YES ☐ NO

4. In the past 12 months, have you received any compensation, loan, gift, benefit or unusual hospitality from any supplier to IEEE?

☐ YES ☒ NO

5. Do you have any other business or personal relationships, not covered in your answers to Questions 1 through 4, above, that could

☐ YES ☒ NO

**IEEE PRINCIPLES OF BUSINESS CONDUCT COMPLIANCE CERTIFICATE**

I have read and understand the IEEE Principles of Business Conduct and will adhere to the standards as described.

I understand that a violation will subject me to appropriate disciplinary action.

☐ YES

The following are any potential violation in the statement of exception

Unit name : IEEE NSW , Australia

Officer Name : Nuala Ward

Officer's Title : Treasurer

Date : Sunday, 2 March 2008

### GEOGRAPHIC UNIT OFFICER'S CONFLICT OF INTEREST (COI) STATEMENT

All Geographic Unit Chairs and Treasurers should complete the COI Statement Form. Any other unit officers that feel their personal involvements might represent a conflict of interest should also complete and submit this form.

( For any **YES** answer below, please provide an explanation in the space provided )

1. Are you or is any member of your immediate family affiliated with a business that supplies property, goods or services to IEEE or any business that is competitive with IEEE?

☐ YES ☒ NO

2. Do you or any member of your immediate family have a direct or indirect interest in a business that supplies property, goods or services to IEEE or is in competition with IEEE?

☐ YES ☒ NO

3. If you answered **YES** to Question 1 and/or 2 above; In the past 12 months, have you made a business decision on behalf of IEEE with any business named in the responses to questions 1 and/or 2 above?

☐ YES ☐ NO

-N/A-

4. In the past 12 months, have you received any compensation, loan, gift, benefit or unusual hospitality from any supplier to IEEE?

☐ YES ☒ NO

5. Do you have any other business or personal relationships, not covered in your answers to Questions 1 through 4, above, that could appear to be a conflict of interest?

☒ YES ☐ NO

I also sit on the 2008 Engineers Australia ITEE Colege as a corresponding Board Member.

### IEEE PRINCIPLES OF BUSINESS CONDUCT COMPLIANCE CERTIFICATE

I have read and understand the IEEE Principles of Business Conduct and will adhere to the standards as described.  
I understand that a violation will subject me to appropriate disciplinary action. ☐ **YES**

The following are any potential violation in the statement of exception

-NA-

Unit name : NEW SOUTH WALES SECTION  
Officer Name : DAVID E BURGER  
Officer's Title : CHAIR 2008  
Date : Sunday, 30 March 2008



IEEE FINANCIAL REPORT L50 FOR THE YEAR ENDING 31 DECEMBER 2007

CHECKLIST - Documents to be Returned (This Checklist must be returned with Form L-50)	
UNIT NAME :	R10 - NEW SOUTH WALES (AUSC) -
CHAPTER :	
<input type="checkbox"/>	2007/2008 Treasurer and Chair profiles have been completed and the General Information & Certification Schedule has been signed.
<input type="checkbox"/>	<b>Mark Consolidated or Non-Consolidated:</b>  <b>Consolidated Form L-50 Financial Report.</b>  We certify that this consolidated report includes all financial activity for the units that report administratively to the Council/Section.  <<<< OR >>>>  <input type="checkbox"/> <b>Non-Consolidated Form L-50 Financial Report.</b>  We certify that this report contains only the financial activity of the unit noted above. All other units required to submit an annual financial report are listed below.  1 2 3 4 5
<input type="checkbox"/>	Completed and separately submitted the Local Bank Accounts Disclosure Statement (required) (This is a separate form and is due by 31-January-2008)
<input type="checkbox"/>	Attached Local Bank Account Statements as of 31 st December (required) (Do not attach or send Year End Statements for Concentration Banking Accounts)
<input type="checkbox"/>	Attached Investment Statements as of 31 st December (required if applicable) (Do not attach or send Year End Statements for Concentration Banking Accounts)
<input type="checkbox"/>	Completed Schedule I - Receipts and Expenses: Pages 1 through 3 (required)
<input type="checkbox"/>	Completed Schedule II - Statement of Net Worth. (required)
<input type="checkbox"/>	Completed Support Schedule III - Schedule of Other Receipts (if required)
<input type="checkbox"/>	Completed Support Schedule IV - Schedule of Other Program/Mgmt/General Expenses (if required)
<input type="checkbox"/>	Completed Schedule V - Page 1 & 2 : Analysis of Purchases & Sales: Investments, Assets & Depreciation (if required)
<input type="checkbox"/>	Completed Schedule VI - Page 1 & 2 : Analysis of Loans/ Advances and Accounts Receivable/ Payables (if required)
<input type="checkbox"/>	Completed Schedule VII - Reconciliation of Checkbook or Register to Bank Statements (required)
<input type="checkbox"/>	Completed the General Information and Certification Schedule (required)
<input type="checkbox"/>	Completed the Conflict of Interest Statement (COI) and Business Conduct ((required)
If send via regular mail or fax, send the above documents to the following address, or fax numbers:  IEEE - Member and Geographic Activities Department - Attn: Finance Administrator 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08854-1331 Fax Number: +1 732 463 3653	
TO BE COMPLETED AND SUBMITTED TO IEEE MEMBER AND GEOGRAPHIC ACTIVITIES BY FRIDAY, 22 FEBRUARY 2008	



The Institute of Electrical and Electronics Engineers, Inc.

**Secretariat:**

AUSTRALIAN PROFESSIONAL CENTRE  
PO Box 576  
CROWS NEST NSW 1585  
Tel: 61 2 94318600 Fax: 61 2 94318677  
Web page: <http://ewh.ieee.org/r10/nsw>

IEEE NEW SOUTH WALES SECTION  
ARBN 078 576 495 ABN 34 078 576 495  
Editor: Eddie Fong  
Email: [eddiefong@ieee.org](mailto:eddiefong@ieee.org)

**Volume 31 Issue 1**

**March 2008**

Dear members

## Contents

Item		Page
	<i>Editorial</i>	1
1.	<i>Messages From The Chair</i>	1
2.	<i>News In Brief</i>	2
3.	<i>Technical Meetings &amp; Conferences</i>	5
4.	<i>Continue to Receive CIRCUIT by Post</i>	7

## Editorial

In December 2007 and January 2008, there were a lot of natural disasters happening around us: flash floodings, hail storms, earthquakes, unusually cold summer weather and so on. The world is going through changes year after year due to depletion of natural resources because of over development and endless exploitation by mankind trying to improve our standard of living.

Australia is trying to do her part in pursuing environmentally friendly initiatives. This is a step in the right direction. We all need to do our bit in an effort to save the environment. Little things like not contributing to landfill will go a long way in preserving our mother earth.



**Eddie Fong** [eddiefong@ieee.org](mailto:eddiefong@ieee.org)  
**Circuit Newsletter Editor**  
**NSW Section**

## 1. Messages from the Chair

Greetings in 2008. We have kicked off this year in a very energetic fashion, with a new student branch councillor from UWS on our committee, a new Graduates (GOLD) Chair, and representation from UNSW at our Section level too. To those students at UWS and UNSW - watch for increased activity from the IEEE. To students and members of other Universities, here is nice tickler to get re-energized and enjoy some benefits and sponsorship from IEEE for local events - both social and technical.

Each year IEEE Region 10 (Asia Pacific) brings together representatives from all Sections in our region for a conferral of ideas and actions. This year it was held for the first time in Ahmedabad in India, which brought home the diversity of people involved with IEEE nearby. One of the key messages I brought back was that we in New South Wales are doing unique things with regard to sponsored student memberships. It also highlighted what others were doing, e.g. An Indian section is promoting engineering and technology to women and young people at risk. This serves both humanitarian objectives as well as providing people with very limited outlook a window into a possible career. Again, very unique in the IEEE field of local initiatives.

There are 4 basic objectives to try and deliver locally this year:

1. Secure some additional conferences here in Sydney and NSW;
2. Finalise the schools promotional CD project and have this distributed later in the year
3. Conduct a student paper competition for NSW, with the winning paper elevated to the R10 student paper competition in Jan'09.
4. Secure a webmaster. The committee has agreed to a small compensation package here which would defray costs to anyone who would like to do this. Ideally someone with an hour or so per month, skills and a broadband connection.

On behalf of our committee, let's make 2008 a great



year for everyone.



**David Burger** [k3hz@ieee.org](mailto:k3hz@ieee.org)  
**Chair**  
**NSW Section**

## 2. News in Brief

### 2.1. IEEE Foundation Announces 2008 Application Deadlines

The IEEE Foundation, Incorporated, the philanthropic arm of the IEEE, is committed to improving the technological literacy of society from childhood through adulthood. One way the IEEE Foundation seeks to achieve this goal is by awarding grants to new and innovative projects. During 2008, unsolicited applications will be accepted in three cycles from IEEE units and other organizations working in areas of relevance and importance to the IEEE and its membership. Projects should achieve one or more of the following objectives:

- Improve primary and secondary science, technology, and math learning
- Encourage pre-university students to consider engineering as a career path
- Increase the public's understanding of the role of engineers and technology in society
- Preserve the history of IEEE associated technologies
- Tap the technological expertise of IEEE members
- Demonstrate ability to be replicated

Application deadlines:

Deadline	IEEE Foundation Meeting Date
4 Jan 2008	Mar 2008
18 Apr 2008	Jun 2008
5 Sep 2008	Nov 2008

Before submitting the online application, please review "How to Apply for a Grant"

(<http://www.ieee.org/organizations/foundation/grants.html>). All applications will be considered for funding by both the IEEE Foundation Board of Directors and the IEEE Life Members Committee. Questions should be

directed to the IEEE Foundation Administrator at +1 732 981 3435 or [foundation-office@ieee.org](mailto:foundation-office@ieee.org).

## 2.2. 2008 NSW Section Committee

1. Chair - David Burger
2. Vice Chair - David Tien
3. Secretary - Antony Zaglas
4. Treasurer - Nuala Ward
5. Circuit Newsletter Editor - Eddie Fong
6. Fellow Search – Walter Lachs
7. Membership development – Bruce Poon
8. Professional Activities – David Burger (David Tien to assist with Engineering Week)
9. Educational activities – Kim Chin
10. Student activities – Ali Hellany
11. Awards and Recognition - Ramutis Zakarevicius
12. Nominations – Bruce Poon
13. Historian – David burger
14. Webmaster – Vacant (Rob Menegon minor changes only)
15. Conference Coordinator (new position) – David Tien
16. GOLD affinity – Alejandro Monroy
17. Life Member Activities – John Robinson
18. Women In engineering – Kim chin
19. Additional Committee member - Candice Gilmore

## 2.3. Chapter Chairs

Chapter	Chair
AP/MTT	Ananda Sanagavarapu
COMMS & SP	Iain Collings
Computer	Kate Carruthers
EDUCATION	Mark Lee
EMBS	Jeff Armistead
IAS/PEL/IE	Danny Soetanto
LEOS/CS/SSC	Graham Town
PES	John Robinson

## 2.4. IEEE NSW Section Treasurer

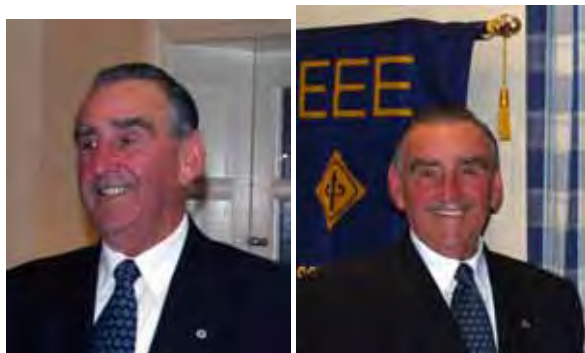
Nuala Ward [Nuala.Ward@alcatel-lucent.com.au](mailto:Nuala.Ward@alcatel-lucent.com.au) has recently taken on the role of IEEE NSW treasurer. This is something that she has thought about doing for a long time and this will be interesting to her to be involved in the IEEE NSW committee.

Her first task will be to sort out the 2007 account and lodge the paperwork to IEEE headquarters. Then, for the year ahead, she will ensure there are sufficient funds for the various activities of IEEE NSW Section has planned for the year.

She works for Alcatel-Lucent as the manager of business development for the network integration division. Her team is responsible for business development and consulting activities across carriers and vertical markets, e.g. utilities, rail, and transport. She has been with Alcatel-Lucent for over 11 years, in a number of roles in engineering, product management, solution management, and was able to spend two and a half years working in Wellington, New Zealand on a number of projects with Telecom New Zealand, with whom Alcatel-Lucent has a large partnership agreement for the transformation of Telecom's network.

Outside of work, she will have a year of house renovations and is trying to get outdoors for some bushwalking.

## 2.5. James Jim Vasseleu (1930 to 2007)



We have lost a good friend, fellow colleague, James Jim Vasseleu, who was the founding champion for the initial IEEE Australian Section back in August 1972, with mentoring from the New Zealand Section as well as the Italian Section. Jim was the Australia Section Chair 1972 to 1973, NSW Section Chair 1985 to 1987, the R10 Director 1977 to 1978, the Board Member IEEE Long Range Planning Committee 1977 to 1978, the Founder IEEE Australia Council 1986, and the R10 Membership Development Chair 1989 to 1991,

Jim was awarded the IEEE Centennial Medal in 1984, the IEEE Larry K Wilson Transnational Award in 1994, and the IEEE Millennium Medal recipient in 2000.

Jim had achieved the Electrical Engineering apprenticeship – Australian General Electric, Design engineer - Johnson & Philips / Crompton Parkinson, Australasian sales manager – Federal Pacific Electric (Aust), EE Director – Fowell Mansfield Jarvis & Maclurcan, Marketing manager - Power Electronics Pty

Ltd, Senior Electrical Engineer Leighton Irwin and then self employed consulting engineer.

Jim had received an Electrical Engineering Diploma, Higher Trades Certificate (Electrical), Electricians license and Management Certificate. He was accredited as a NSW Government Electrical Engineer in 1957. Jim maintained membership of Professional Associations and was a MIEEE in 1969, Senior Member IEEE in 1975, Life SMIEEE in 2000, Fellow IEAust, Fellow IREE, CPEng, Associate Fellow Australian Institute of Management. NPER until 2004. He was a Member Society of Engineers London (now called IET).

## 2.6. IEEE 2008 Life Members Committee

At 14 and 18 November 2007, the IEEE Board of Directors has confirmed and appointed Graeme B. Gwilliam as a member of the 2008 IEEE Life Members Committee.

Congratulations to you, Graeme.

## 2.7. Volunteers Required to Sign Principles of Business Conduct Compliance Certificate

In November 2007, the IEEE Board of Directors adopted the IEEE Principles of Business Conduct (PoBC), which requires that a compliance certificate be submitted each year by all volunteers and staff with decision-making authority. A signed form is also required from non-members and others who do business with, or on behalf of, IEEE.

Details about the PoBC and the certification form are provided at <http://www.ieee.org/go/pobc>. Everyone who is required to complete the IEEE Conflict of Interest Disclosure (COI) Statement form must also complete the PoBC form, annually.

The PoBC certification form and COI statement have been included in the annual Geographic Unit Financial report so all Geographic Unit Chairs and Treasurers are required to complete these items when they submit the annual financial report for their unit. The annual financial report for geographic units must be submitted by 31 March 2008.

The establishment of IEEE's Principles of Business Conduct is consistent with both nonprofit and for-profit best governance practices. With submission of the certificate, individuals confirm that they have read

these Principles and will adhere to the standards described therein. Non-compliance with this reporting requirement could subject individuals to disciplinary action that could result in removal from their volunteer position or termination from their staff position.

For more information contact the IEEE Corporate Integrity Officer at [corp-integrity@ieee.org](mailto:corp-integrity@ieee.org)

## 2.8. IEEE Section Congress 2008

As a reminder, IEEE Sections Congress 2008 will be held 19 – 22 September at the Quebec City Convention Center in Quebec City, Canada. The theme of the event is "Celebrating Volunteer Achievements Worldwide." The three program tracks are: Membership; Section Management; and Section/Chapter Activities. The registration web site for SC08 will be available by 1 March 2008. All Section Chairs will be receiving notification when the registration web site is available.

If you are planning on attending, please ensure that you have the appropriate travel documents. Contact [sc-coordinator@ieee.org](mailto:sc-coordinator@ieee.org) or visit <http://www.ieee.org/sc2008> for more information.

## 2.9. IEEE TV Launches New Series Addressing Environmental Concerns

IEEE.tv has produced an "Energy Innovations" series of programs that explore how solar, renewable and coal energy are being implemented to meet growing

energy needs. All three videos in the Energy Innovations series will be available free to the viewing public. The first program, "The Hydrogen House," profiles Mike Stritzki, an engineer who designed and built a house run entirely by solar energy. "The Hydrogen House" can currently be viewed at <http://www.ieee.org/ieeetv>.

The other programs, "Solar Goes Small" and "Schwartz Pump: Re-imagining Coal Power" will be added at a later date.

Full descriptions of the upcoming programs appear below:

"Solar Goes Small" – profiles an American group building a solar panel manufacturing plant in Cardiff, Wales. This plant will be the first facility that makes renewable energy products using only renewable energy. In addition to generating power from "traditional" solar sources, the panels made in the Cardiff facility will also generate power from indoor lighting and moonlight.

"Schwartz Pumpe: Re-imagining Coal Power" – outlines the anticipated coal depletion and the steps being taken to maximize the current reserves. Located near the Polish/Czech border in former East Germany, the Schwartz Pump is a massive power plant with boilers over 160 meters high. A new plant is under construction which will generate efficient, nearly clean power from coal, the first power plant to attempt such a feat.

### 3. Technical Meetings & Conferences

All members are cordially invited to attend these joint meetings with the Engineers Australia (EA), IEEE, ITEES and IET. These joint meetings are held at 6.00 pm (with light refreshments at 5:30pm) at the Engineers Australia, 8 Thomas 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.ewh.ieee.org/r10/nsw/subpages/news/news.htm> and also the Engineers Australia at <http://sydney.ieaust.org.au/weekevents.html> to prevent any potential disappointment due to last minute changes.

2008	Event	Speaker	Host	Contact	Venue [ensure you re-confirm beforehand]
3/3/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00-9:00pm) Seminar Room - Library Gore Hill TAFE
13/3/2008	Building your own Smart Transport (Self balancing scooter - aka Segway)	Malcolm Faed	Joint Program (IEEE)	David Burger	6:00pm 8 Thomas St, Chatswood
26/03/2008 - 27/03/2008	Australian Broadcasting Summit		AACE	ph +61 2 8908 8555	Bayside 204, Sydney Convention & Exhibition Centre, Darling Harbour
27/3/2008	Engineering Leadership + 125th Anniversary of the Faculty of Engineering.	John Grill, Frank Sarlor, George Mallabarow, Peter North	Joint (IEEE - ED)	<a href="mailto:rsys@usysd.edu.au">rsys@usysd.edu.au</a>	5:00pm to 7:30pm - MacLaurin Hall, Quadrangle, University of Sydney. RSVP by 21 March. \$40. ph 90389278
27/3/2008	High Voltage Lab - Practical Demonstration	Paul Pokorny	Joint (IET)	John Englefield	National Measurement Institute, Bradfield Road, Lindfield, NSW 2070
29/3/2008	World Wildlife Fund's (WWF) Earth Hour, Sydney				Sydney
2/04/2008 - 3/04/2008	Wireless World 2008 Conference		AACE	<a href="http://www.wirelessworld2008.com/">http://www.wirelessworld2008.com/</a>	Exhibition Hall 5, Sydney Convention and Exhibition Centre, Darling Harbour.
7/4/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00-9:00pm) Seminar Room - Library Gore Hill TAFE
10/4/2008	Bio Hazard Controls for Engineers (Organic semiconductors, Implants & Statutory Rules)	Ryszard Knopf, Scientific Interiors	Joint Program (IEEE)	David Burger	6:00pm 8 Thomas St, Chatswood
5/5/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00-9:00pm) Seminar Room - Library Gore Hill TAFE
8/5/2008	EXPERT WITNESS - How to give credible engineering evidence in Court.	Dr Phil Watts, Forensics, philpsyc@inet.net.au	Joint Program (IEEE)	David Burger	6:00pm 8 Thomas St, Chatswood
21/05/2008 - 23/05/2008	CRCSI 2008 - Spatial Systems	<a href="http://www.crca.srn.au/conference/">http://www.crca.srn.au/conference/</a>	?	David Tien	Australian Technology Park, Redfern
22/5/2008	Westfield & Engineering		Joint Program (EA)	Alan Sangster	6:00pm 8 Thomas St, Chatswood
2/6/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00-9:00pm) Seminar Room - Library Gore Hill TAFE
12/6/2008	Presentation by "Macquarie Generation"	by CEO, Mr Grant Every-Burns	Joint Program	George Fox / Mark Edmunds	6:00pm 8 Thomas St, Chatswood
14/06/2008 - 15/06/2008	ASHET: Two day symposium on the history of meteorology in Australia.		EA Heritage Committee	<a href="mailto:sec@ashet.org.au">sec@ashet.org.au</a>	TBA
26/6/2008	Alternative Energy Update / Engineering for Kyoto.		Joint Program	John Englefield	6:00pm 8 Thomas St, Chatswood
23/ 06/2008 - 26.06/2008	ICITA 2008		IEEE NSW Cosponsor	David Tien	Cairns
7/7/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00-9:00pm) Seminar Room - Library Gore Hill TAFE
7/07/2008 - 12/07/2008	Australian Conference on Optical fibre technology & the 21st Opto-electronics & Communications conference	<a href="http://www.iceaustralia.com/oecce_acoft2008/">http://www.iceaustralia.com/oecce_acoft2008/</a>	Ice Australia	02 9368 1200 / <a href="mailto:oecce_acoft2008@iceaustralia.com">oecce_acoft2008@iceaustralia.com</a>	The ICO-21 2008 Congress and OECC/ACOFT 2008 Conference will be co - located at the Sydney Convention and Exhibition Centre, Darling Harbour.
10/7/2008	Harmonics in Power Systems	Rockwell	Joint Program (IET)	Upali	6:00pm 8 Thomas St, Chatswood
14/07/2008 - 16/07/2008	AUSCERT 2008. ACISP2008 Computer and Crypto Conference	<a href="http://www.upw.edu.au/conferences/acisp%202008/index.html">www.upw.edu.au/conferences/acisp%202008/index.html</a>	UOW		University of Wollongong
24/7/2008	Chatswood/Epping Railway line		Joint Program	Ian Kennedy / Mark Edmunds	6:00pm 8 Thomas St, Chatswood
27/7/2008	17th International conference on photochemical conversion and storage of solar energy	<a href="http://www.ips17.com">www.ips17.com</a>	ips	see web	see website
28/07/2008 - 1/08/2008	International conference on Electronic materials		see website	Helen Woodall <a href="mailto:helen@materialsaustralia.com.au">helen@materialsaustralia.com.au</a>	see website





# Building an Open Source Self Balancing Scooter

**Malcolm Faed,  
Knowledge Management Program Officer  
Global Service Excellence Team (GSET)  
Roche Products Pty Limited**

**DATE/TIME:** Thursday, 13 March 2008; 5:30 for 6:00pm. Start  
**VENUE:** Engineers Australia Auditorium,  
Ground Floor, 8 Thomas Street, Chatswood.

In recent times, advanced electronic systems have become cheaper and cheaper and at the same time become more complex. The price of the components are now within reach of the hobbyist (e.g. Gyro and Accelerometer). This allows more complex systems to be built at relatively low cost. And most important these advanced technologies can be used by individuals and hobbyist where they were previously only available to more wealthy individuals and corporations.

This is also an excellent example of Peer to Peer Development that brings together people from different continents and backgrounds to develop a common product.

This is a project I had contemplated for quite a few years since first seeing the Segway on the Internet. I saw and had a ride on Geoffrey Bennett's home made scooter at the Linux Conference in 2007 in Sydney. he also offered the source code on his web site which was going to be the hardest part for me.

This project marries several of my passions, Electronics, Mechanics, Control Systems and Software.

More detailed information is available here -> <http://members.optusnet.com.au/a4x4kiwi/scooter/>

**Obligatory warning. Build this project at your own risk. If you injure yourself or any one else its not my fault.**

Malcolm Faed has 10+ years of experience in Information Technology in both hardware and software. He has extensive experience in Windows, Networking and in Linux. Malcolm takes a very pragmatic approach to projects, and is currently looking at even larger vehicle projects.

Malcolm's tertiary qualification is a New Zealand Certificate in Engineering - Electronics and Computer Technology. He is a Member of the IEEE and the Manly Warringah Radio Society.

**NOTE: Attendance may be credited towards Engineers Australia's Continuing Professional Development (CPD) points. Engineers Australia members are required to undertake a minimum of 150 hours CPD every three (3) years & are responsible for recording CPD for audit.**

**For further information please contact David Burger –  
[k3hz@ieee.org](mailto:k3hz@ieee.org) or Phone 0414 328877**

## 4. Continue to Receive Circuit by Post

**Circuit** is currently provided electronically from the IEEE NSW Section Website <http://ewh.ieee.org/r10/nsw>. Members will be notified by email when a new issue is posted on the Website. A printed copy of **Circuit** will only be sent on request by members and for those without an email address.

If you require a printed copy of **Circuit** mailed to you, please complete the form below:

**Note: If you have previously returned this form, there is no need to send it again.**

Please Detach-----

**Yes, I want to receive *Circuit* by post**

Name:..... Member No:.....

Address:..... Postcode:.....

Tel: (H).....(W).....(M).....FAX.....

Email: .....

**Post to:**

Circuit Editor, C/O Austratian Professional Centre, PO Box 576. CROWS NEST NSW 1585

Or Fax: 61 2 94318677

*Circuit* reaches over 2200 IEEE members in NSW. For  
advertisement in *Circuit*

Please contact:

Eddie Fong at +61 4 137775111 or [eddiefong@ieee.org](mailto:eddiefong@ieee.org)



The Institute of Electrical and Electronics Engineers, Inc.

**Secretariat:**

AUSTRALIAN PROFESSIONAL CENTRE  
PO Box 576  
CROWS NEST NSW 1585  
Tel: 61 2 94318600 Fax: 61 2 94318677  
Web page: <http://ewh.ieee.org/r10/nsw>

IEEE NEW SOUTH WALES SECTION  
ARBN 078 576 495 ABN 34 078 576 495  
Editor: Eddie Fong  
Email: [eddiefong@ieee.org](mailto:eddiefong@ieee.org)

**Volume 31 Issue 2**

**July 2008**

## Contents

Item	Page
<i>Editorial</i>	1
1. <i>Message from the Chair</i>	1
2. <i>News In Brief</i>	2
3. <i>Chapter News</i>	8
4. <i>Technical Meetings &amp; Conferences</i>	9
5. <i>NSW Section Committee Nomination for 2009</i>	10
6. <i>NSW Section 2008 AGM/Dinner Reservation</i>	11
7. <i>Continue to Receive CIRCUIT by Post</i>	11



**Eddie Fong** [eddiefong@ieee.org](mailto:eddiefong@ieee.org)  
**Editor, Circuit Newsletter, NSW Section**

## Editorial

This year, the 2008 IEEE NSW Section AGM will be hosted at the Crowne Plaza (Parramatta), 30 Phillip Street, Parramatta on 28 November 2008. We aim to serve you better and hope that Crowne Plaza will provide an excellent environment for us to network and be involved. In addition, we have prepared a little IEEE NSW Section gift for you at this AGM as a token of appreciation to all of you for your support to this Section. The Committee Members and I look forward to meeting you at this AGM.

We encourage you to be actively involved with the Section and to nominate for a Committee position using the form at the back of this newsletter to reach IEEE NSW Section Secretary by 28 August 2008.

To enlarge our activities in NSW, we have Kim Chin on the Committee to form the Women in Engineering Chapter and all women members are invited to be involved. Please get in touch with Kim Chin at [k.chin@mackillop.acu.edu.au](mailto:k.chin@mackillop.acu.edu.au)

To encourage all NSW engineering students, we will be having a student paper contest and a prize will be awarded for the best paper for each of the NSW Universities. Please look out for details of this competition at your local University Student Council or School of Engineering in the second half of 2008.

For those that are in PES Chapter, please be informed that it has been renamed "Power and Energy Society" Chapter.

## 1. Message from the Chair

Some of the most interesting things happen when you least expect them. This is what happened when IEEE organized the lecture/presentation by Dr Phil Watts discussing the Expert Witness and interacting with the legal profession. Dr Phil Watts is based in Perth and comes to Sydney once a year to present to health care professionals. Through associations of my wife, he agreed to address the "Expert Witness" to the Engineering professionals. More than 100 people attended the lecture.

What I'm taking away from this is that today's engineers are looking for value and opportunity in educational topics that are relevant to their careers and life but not necessarily engineering subjects. While I have received some criticism about this style of presentation, including the packed Neurologist presentation on EEG brain waves last year, the numbers of interested engineers/technologists far outweigh the detractors.

Our 2008 events calendar is effectively booked up right now. But if you know someone who has a skill or material that would benefit members for 2009, please let me know, and I will schedule it in the 2009 events calendar.

I plan to reduce my involvement in the events space in 2009 and would be happy to assist someone with a couple of hours free time each month in taking over this activity.

At the Section level, four members of the Committee will be funded to attend the IEEE Sections Congress in Quebec City from 19 to 22 September 2008. This will provide NSW Section a heightened involvement at the

Region and Global levels of participation.

Remember, we are always happy for you to get involved in whatever capacity you desire.



**David Burger** [k3hz@ieee.org](mailto:k3hz@ieee.org)  
Chair, NSW Section

## 2. News in Brief

### 2.1. University of New South Wales (UNSW) Student Branch Workshop

IEEE UNSW Student Branch organized a Matlab and Simulink Workshop on Monday 26 May 2008. The engineers from Mathworks explained the basic tools, commands and applications of Matlab and Simulink Platforms.

Matlab is a high-level language and interactive environment for computationally intensive tasks. Created by the MathWorks Inc., Matlab allows easy matrix manipulation, plotting of functions and data, and implementation of algorithms faster than traditional programming languages such as C, C++ and Fortran. A cruller produced by a Matlab code can be found at <http://www.mathworks.com/products/matlab/demos.html?file=/products/demos/shipping/matlab/cruller.html>

Simulink is another Mathworks product which is an environment for multi-domain simulation and model-based design for dynamic and embedded systems. It provides an interactive graphical environment and a customizable set of block libraries that let you design, simulate, implement, and test a variety of time-varying systems, including communications, controls, signal processing, video processing, and image processing.



by **Sara Hakami**  
UNSW Student Branch

## 2.2. IEEE R10 Newsletters

The March and June 2008 edition of the Region Ten Newsletter are available at:

[http://www.ewh.ieee.org/reg/10/Newsletter/2008/R10\\_eNewsletter-March2008.pdf](http://www.ewh.ieee.org/reg/10/Newsletter/2008/R10_eNewsletter-March2008.pdf)

by **Zia Ahmed**  
Editor, R10 Newsletter

## 2.3. IEEE Fellow Application

As IEEE NSW Section Fellow Search Chairman, I will relate a number of essential points in the process of nomination.

Firstly, the member must be of Senior IEEE member grade and secondly, there must be at least four IEEE Fellows who will be your Supporters to support your nomination.

You should advise me of the Supporters' details (including email addresses). You should also send me your supporting information that I can forward to them.

You have to complete the nomination form provided on the IEEE website in giving your particulars and work experience and then send this to me. I would then forward this to the persons who would support your nomination. According to the rules, you are not allowed to approach them directly with your particulars.

The deadline for completing all the formalities in nominating for IEEE Fellow must be completed by 1 March 2009. A decision on the nomination would be made towards the end of 2009.



by **Walter Lachs**  
NSW Section Fellow Chairman

## 2.4. Membership Development

As at 30/4/08, our total active membership in NSW Section is around 2,256 with student member at 403.

The number of Life members has dropped from 52 to 50 due to passing away of members while the number of Senior Member / Fellow members has increased from 156 to 162.

Female membership has had a slight drop with current numbers at 156.



To promote and increase our IEEE membership, we have carried out a number of actions including:

- 1) To support student branches activities.
- 2) To re-introduce our 200 free student memberships for 3<sup>rd</sup>, 4<sup>th</sup> Year students and postgraduate students in 2008.

We have also re-activated inactive student branches. Any student members who would like to be in the student branch committees and any members, especially academic staff, who would like to be their mentors, please contact Dr Ali Hellany (Student Activities Chair) of University of Western Sydney. Contact Dr Ali Hellany at 4736 0126 or [a.hellany@uws.edu.au](mailto:a.hellany@uws.edu.au)

For Members, there are a number of you who are qualified to be senior members. If you are interested to upgrade your membership to Senior Member grade, you can find all details and applications forms at [www.ieee.org/web/membership/senior-members/index.html](http://www.ieee.org/web/membership/senior-members/index.html).

Finally, IEEE NSW Section Committee 2009 is now open for nomination. If you like to contribute some of your spare time and work with a professional team, please do not hesitate to contact me at 0414 662 766 or [adsphere@optusnet.com.au](mailto:adsphere@optusnet.com.au)



by **Bruce Poon**  
Membership Development Chair, NSW Section

## 2.5. Macquarie University Student Branch



Arif Khan  
-Chair



Ozgur Isik  
- Vice Chair



Matthew Fellow  
- Secretary

The IEEE NSW Student Branch at Macquarie University, Sydney, Australia, started 2008 by promoting IEEE at the University Orientation Week, held from the 25 to 27 February 2008.



The Macquarie University Department of Electronic Engineering held a barbeque on the 13 March 2008 to welcome 1<sup>st</sup> year Engineering students. This event was also attended by senior undergraduate students, postgraduate students, general staff and the academic staff. The IEEE NSW Student Branch welcomed the new students and encouraged them to participate in IEEE activities throughout the year to come.



On 9 April 2008, the IEEE NSW Student Branch at Macquarie University led by a group of postgraduate students, embarked on a tour of the Commonwealth Scientific and Industrial Research Organization (CSIRO) Information and Communication Technologies (ICT) Centre. Only a short walk from Macquarie University, the ICT centre is a cutting edge research facility right on our doorstep. We were shown demonstrations covering many areas such as wireless technologies, information engineering, networking

technologies and autonomous systems. Everyone enjoyed the tour and went away with a clearer picture of the possibilities of what engineering can achieve. Thanks to Daniel Legovich of the CSIRO for showing us the impressive facilities at the ICT Centre.



The IEEE NSW Student Branch at Macquarie University plans to build on this strong start for 2008 to increase its student membership numbers. It is expanding the number of ways that the members can interact and participate in IEEE activities both on and off campus. Future proposed activities include more barbeques and movie evenings that will showcase a video on new technology followed by a sci-fi blockbuster for all to enjoy.

These activities of the IEEE NSW Student Branch at Macquarie University are organized by Arif Khan, Ozgur Isik, Mathew Fellow and supported by the Branch Counsellor Professor Karu Esselle and other academic staff of the Electronic Engineering Department. The IEEE NSW Student Branch of Macquarie University can be contacted at [sb.mq@ieee.org](mailto:sb.mq@ieee.org).



By Prof Karu Esselle [esselle@ics.mq.edu.au](mailto:esselle@ics.mq.edu.au)  
Macquarie University Student Branch Counsellor

## 2.6. Historian Activity

On the historic material side of things, some of our biographical information is expanding, and so are developments for a major electrical photo archive. The photo archive will be flagged with Engineers Australia Heritage Committee with hopefully permissions by NSW Government and State Archives.

A small team of volunteers is slowly growing to process things – with much still at the planning / agreements stage.



by David Burger [k3hz@ieee.org](mailto:k3hz@ieee.org)  
Chair, NSW Section Historian

## 2.7. Life Members

The December 2007 edition of **IEEE Life Members Newsletter** was mailed to Australian members late May. I received my copy on 20 May 2008. If any member did not receive a copy, you can obtain from <http://www.ieee.org/portal/pages/committee/lmc/lmnewsletter.html>

by John Robinson [j.l.robinson@ieee.org](mailto:j.l.robinson@ieee.org)  
Chair, NSW Section Life Member Activities

## 2.8. IEEE Executive Director

IEEE Executive Director and Chief Operating Officer Jeffry Raynes resigned “for personal and professional reasons,” effective 5 June. Raynes joined IEEE in November 2005.

IEEE President and CEO Lewis Terman plans to be responsible for day-to-day operations beginning 6 June. The IEEE Board of Directors will soon conduct a search for Raynes’s replacement.

## 2.9. Welcome to Our New Members and Upgrade Members

From January to May 2008, we have the following new members or newly upgraded members:

**Fellow Grade**  
Alexander Zelinsky

### Life Senior Member Grade

Dennis N Cooper

### Senior Member Grade

Arjun B Mehta  
David T Johnson  
John Plaice  
Rafael A Calvo  
Darmawan (Danny) Sutanto  
Muhammed F Rahman  
Phil Bryant

### Life Member Grade

Arthur S Gray

### Member Grade

Philip A Cooney  
V Vetchelvan  
Kevin P Kilraine  
Stephen J McIntosh  
David W Moore  
Ian G Choy  
C G Jenkinson  
Kin Wah Wong  
Sri Parameswaran  
Tirthankar Raychaudhuri  
Md Abu S Miah  
Chi Ming M Cheng  
Alan C Young  
Rohit K Iyengar  
Chee Min Wong  
John Wade Kearney  
David A Coward  
Phillip J Mckiernan  
Jose Churruca  
Anil Sharma  
Paul J McMahon  
Gregory A Colla  
N Rajaratnam  
Kannan Balakrishnan  
Angel G Maluyo  
Jovan Gligic  
Tarun Bhushan  
Mark A Stevens  
David S Byrnes  
Paul O Ogunah  
Stefan B Williams  
Daniel Richard Heckenberg  
Bradley J Gay  
Blanca Mancilla  
Nick R Garland  
Shane L Macphillamy  
David R McGhee  
Peter Wong  
Adrian Hobbs  
Yang Wang

Yi Bin Margaret Lu  
Patrick Conrick  
Yaug-Lan Yeh  
Richard Yi Da Xu  
Eryk Dutkiewicz  
Manas K Patra  
Benjamin P Haines  
Farzana Mustafa  
Bruce A Campbell  
Abu R Ullah  
Zvi Rosberg  
Jared Simpkins  
Kareem Tawansi  
Paul Andrew Cleary  
Marco Petasecca  
Robert C Boyd  
Matthew Ho  
Abhishek Sinha  
Sam Behrens  
Mario Robles Jueco  
Konrad Gebels  
Gerry Mendon  
Ian McWilliam  
John C Roughan  
Alejandro Jose Rojas  
Catherine Patricia Foley  
Chaker Khabbaz  
James Bell  
Ken Simpkins  
Jeffrey Louis Pages  
Steven Tomassini  
Justin Thomas Fletcher  
Ronald Pearson  
Anita Wing Ho-Baillie  
John Yi-Chen Li  
Paul Bannerman  
Tam Hoang  
John Graham  
Yasser M Ali  
Andrew Dorrell  
Phil Purdy  
Jianfan Zou  
Abul Kashem Muhammed Ziaur  
Rahman  
Kurt Schober  
Matthew John Sheedy  
Rustam Yumash  
Nathalie Nakhle  
Dominic William Berry  
Ronald Frederick Diamond  
Albert Pors  
Steven Atcheson  
Michael Karel Groeneweg  
Marcin Kozik  
Stuart Charles Harrison  
Geoffrey Huntley



Naimul Islam  
Desmond Kim Tee Low  
Bryce Boland

#### Associate Grade

Michael H Biber  
Charles E Crick  
U M S Perera  
Khalid Matrouk  
Evan L James  
Fadzi Ushewokunze  
Ramesh S Snell  
Andre Moenninkhoff  
Igor Cergol  
Sharmini Weerasinghe  
Anthony John Leo  
Steve Abbott  
Jason Williams Owen  
Rhys Horn  
Nicholas Heyke

#### Affiliate Grade

Uwe Roehm  
Saurabh Jain  
Andrew Sim  
Joseph G Davis  
Anthony Nguyen  
C Bennett  
Xiaodi Huang  
Boualem Benatallah  
Donald Shearman  
Harold Brown  
Lei Shi  
William Russell  
Noel William Frappell

#### Graduate Student Grade

Vince H Wah Cheng  
Manal E Helal  
Matthew Raphael Flax  
Stephen Leslie Tansing  
Mudiyanselage S C Herath  
Victor Tam  
Daniel J Ryan  
Aaron P Chippendale  
Colin Y Tan  
Sean E Luskey  
Michael L Smith  
Pasquale Aliberti  
Joseph A Thomas-Kerr  
Wibowo Hardjawana  
Syed I Husain  
Jorgen Peddersen  
Heidi B Stratti  
Balint Seeber  
Mohaddeseh Nosratighods

Jay R Carniel  
Chung-How Poh  
Liang Wang  
Tharmarajah Thiruvanan  
Zhiyu Xi  
David J Carmichael  
Bennet Xavier  
Zhe Xu  
Khaled Khankan  
Weisheng Si  
Bang Matt Zhang  
Jun Yang  
Hamood Ur Rahman Khawaja  
Bao Ngoc Bui  
David Sun  
Xi Chen  
Dayong Ye  
Yin Kia Chiam  
Shaojie Yuan  
Adeel Razi  
Shengbo Guo  
Robert James Williams  
Ronny Novianto  
Jun Yao  
Vinh Xuan Nguyen  
Michael Kurniadi  
David Kenneth Lucas  
Evan King Yiu Tam  
Artem Parakhine  
Cameron Maxwell  
Samir Talati  
Ming Chien Wu  
Kheng Cher Yeo  
Ali Orhan Aydin  
Hieu Quan Huynh  
Marwan Hadri Azmi  
Mohammed Hussein Naseef Al Assadi  
Pedro Thomas Harris  
Shuhaida Yahud  
Praptono Adhi Sulistomo  
Lindsey J Bignell  
Cher Hau Seng  
Giang Hoang Nguyen  
Lei Li  
Basem Suleiman  
Joe Zou  
Yee Jern Chong  
Chengyu Krystian Ji  
Muhamamd Asif Khawaja  
Wei Li  
Hao Su  
Yin Chin Choo  
Haris Javaid  
Faisal Ahmed Khan  
Xuan Vinh Nguyen  
Tet Fei Yap

Zhaonan Zhang  
 Aaron Seng Wai Wong  
 H Eb  
 Jia Xu  
 Hung Ngoc Vo  
 Mohamad Nassereddine  
 Kiran Joy Varughese  
 Thang Hoai Bui  
 Hassan Alachi  
 Muhammad Uzair  
 Alfred Krzywicki  
 Muhammad Imran  
 Gosciniak Jacek  
 Pushpika Wijesinghe  
 Rose Faye Salazar  
 Amir Hesami  
 Xin He  
 YiFei Dong  
 Zhou Wang  
 He Yufeng  
 Hezhou Hu  
 Xuebin Fan  
 Michael Liu  
 Seh Chun Ng  
 Rui Wang  
 Ashnil Kumar  
 Brian Anthony Hope  
 Sivaram Mahalingam  
 Soo Ling Lim  
 Jianlong Zhou  
 Quincy Tse  
 Anthony Minasian

#### Student Grade

Joshua Ross Wall  
 Dan Azriel  
 Shahpar Ahmed  
 Sankika Tennakoon  
 Deepak S Sahay  
 Dean A Safadi  
 Samartha Bijukchhe  
 Joshua M Brown  
 Shoeb Sarkar  
 Joshua P Toomey  
 Jeremy A Hallett  
 George Lazarou  
 Justin Nicholas Armellin  
 Si Yuan Wang  
 Yong Khing Tan  
 Zhi Li  
 Alexander Jan Probst  
 Kevin Valenzius Tanumihardja  
 Chih-Hwan Henry Yang  
 Song Gao  
 Peter White  
 Mohammad Jafar Sadeque

Carlos Alfredo Adjiman  
 Ramita Manandhar  
 Benjamin Jason Avallone  
 Gregory Martin Rankmore  
 Boris Skapik  
 Nathan Dean Lange  
 Matthew Thomas Fellow  
 Marc Estimada  
 Min An Tan  
 Russell Joseph Gentle  
 David Maunder  
 Jie Gu  
 Xiwei Xu  
 Suronapee Phoomvuthisarn  
 Hussain Ibrahim Sulaiman  
 Zibo Zhou  
 Kevin Shuo Shang  
 Kit Chan Wong  
 Kamaljit singh  
 Jinying Zhao  
 Joan Lee  
 David Sparks  
 David Bruce Phillips  
 Mohd Afizi Mohd Shukran  
 Richard Alexander Harley  
 Hao Xiang Shen  
 Thanu Abayaratna  
 Michael Satrio Wisesa  
 Jagindran Krishnan  
 Rui Li  
 Crystal Huang  
 Robert Shuhdi Salama  
 Andrew Simon Bodnaruk  
 Fang Xie  
 CY Vanessa li  
 Biju Nair  
 Cyril Kobamelo Mothate  
 Patrick Vera  
 Hamidreza Karimi  
 Yung-Yu Su  
 Ming Chen  
 Gibbs Terence Gibbs  
 Jie Qu  
 Wenqi Huang  
 Aditi Anand  
 Yanqing Liu  
 Kar Yeung Lau  
 Adam Joseph Watson  
 Man Cheung Ma  
 Houssam Sassine  
 Roy Rui-Jie Kwan  
 Lars Narushevich  
 Chaitanya Manapragada  
 Michael James Gratton  
 Kenneth Cheng  
 Siu Wai Wong

Wade Jared Authurs  
 Colin Crisafulli  
 Andrew Rinaldo  
 Chi Kit Raymond Yeung  
 Justin Byrnes  
 Grant Daniel Saunders  
 Can Quoc Nguyen  
 Eliza Wong  
 Nima Talebi

### 3. Chapter News

#### 3.1 Lasers and ElectroOptics / Circuits and Systems / Solid State Circuits (LEOS/CAS/SSC) Joint Chapter

The NSW LEOS/CAS/SSC Chapter has been fortunate to continue working with other active Chapters around Australia to bring more IEEE Distinguished Lecturers to Australia.

Technical meetings to date in 2008 with Distinguished Lecturers were as follows:

On 28 February 2008 by Professor Masaya Notomi, NTT Basic Research Laboratories on Controlling Light by Photonic Crystals

On 14 April 2008 by Professor John O'Brien, University of Southern California on Photonic Crystal Devices

Additionally, the Chapter will host another IEEE Distinguished Lecturer by Professor John Dudley from the Institute FEMTO CNRS, who will be speaking at Macquarie University on the 17th of July on modelling of nonlinear optical phenomena and optical supercontinuum generation.

Details of the latter and other meetings will be emailed to members, so please keep your membership profile and contact details up to date at [http://www.ieee.org/web/membership/join/update\\_profile.html](http://www.ieee.org/web/membership/join/update_profile.html)

Please feel free to contact me for details of future technical meetings we are planning. Proposals from members for technical meetings are always welcome.



**Prof Graham E. Town** [gtown@ics.mq.edu.au](mailto:gtown@ics.mq.edu.au)  
 Chapter Founding Chair  
 LEOS/CAS/SSC Joint Chapter, NSW Section

### 3.2 Engineering in Medicine and Biology Society Chapter (EMBS)

2007 was certainly a great kick-off year for the IEEE NSW EMBS Chapter. We should all thank Carolyn McGregor, our Founding Chair, for her energy and enthusiasm in getting the Chapter off the ground in the first place and then driving it through a successful first year. Carolyn is currently furthering her career in Canada as Canada Research Chair in Health Informatics and I have taken over the EMBS Chapter Chair from 2 May 2008.

Our activities in 2007 included three main events. First off the rank was a site visit to ResMed which included a talk by COO Rob Douglas and a tour of the manufacturing facility. Discussions with visitor Lawrence Chan at the first site visit led to the second site visit at Cochlear, which included talks from the VP of design and development and from an implant recipient. Finally, we were lucky enough to have Professor Yongmin Kim speak about "Translational Research, Technology Commercialization and Entrepreneurship" as part of the IEEE distinguished lecturer program at a joint IEEE / Engineer Australia event. All three events were well attended and enthusiastically received.

Throughout the year we also focused on extending links in the IEEE community, establishing a web presence and communicating regular university research seminars. This year the IEEE EMBS flagship conference—EMBC—will be held in Vancouver, Canada. Details on the conference can be found at: <http://www.embc2008.com/>. Check out the important dates section as the conference is fast approaching.

2008 promises to be another interesting year as we look to expand our membership. Several new site visits are already in the works. Our AGM will be announced soon and participation is always encouraged. I have found the experience rewarding and have really enjoyed the chance to meet my NSW colleagues. Please contact Joanne Curry ([jm.curry@uws.edu.au](mailto:jm.curry@uws.edu.au)) and get involved in the committee for the EMBS NSW Chapter. Special thanks to Jonny Lau for taking over my old position of program officer at short notice.

On behalf of the committee, I invite you to get involved and take part in our 2008 program. Keep an eye on our website at <http://www.ieee.org/go/embsnsw>.



**Jeff Armitstead**  
 Chair and founding Program Officer  
 EMBS Chapter, NSW Section

## 4. Technical Meetings & Conferences

All members are cordially invited to attend these joint meetings with the Engineers Australia (EA), IEEE and IET. These joint meetings are held at 6.00 pm (with light refreshments from 5:30pm) at the Engineers Australia, 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 Engineers Australia at <http://sydney.ieaust.org.au/weekevents.html> to prevent any potential disappointment due to last minute changes.

2008	Event	Speaker	Host	Contact / Chair	Venue [ensure you re-confirm beforehand]
26/06/2008	Alternative Energy Update / Engineering for Kyoto.		Joint Program	Deon Rowley	6:00pm 8 Thomas St, Chatswood
23/ 06/2008 - 26.06/2008	ICITA 2008		IEEE NSW Cosponsor	David Tien	Cairns
7/07/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00~9:00pm) Sydney Mechanics School of Arts, Level 1, 280 Pitt St, Sydney
7/07/2008 - 12/07/2008	Australian Conference on Optical fibre technology & the 21st Opto-electronics & Communications conference	<a href="http://www.iceaustralia.com/oecac_of2008/">http://www.iceaustralia.com/oecac_of2008/</a>	Ice Australia	02 9368 1200 / oecac_of2008@iceaustralia.com	The ICO-21 2008 Congress and OECC/ACOF 2008 Conference at the Sydney Convention and Exhibition Centre, Darling Harbour.
8/07/2008 - 11/07/2008	IEEE International Conference on Computer and Information Technology. (fees may apply)	<a href="http://attend.it.uts.edu.au/cit2008/">http://attend.it.uts.edu.au/cit2008/</a>	IEEE Computer Society		Building 5, Haymarket, City Campus, University of Technology, Cnr Quay Street & Ultimo Road, Haymarket
10/07/2008	Harmonics in Power Systems	Peter Tomazic, Rockwell	Joint Program (IET)	Upali	6:00pm 8 Thomas St, Chatswood
14/07/2008 - 16/07/2008	AUSCERT 2008. ACISP2008 Computer and Crypto Conference	<a href="http://www.upw.edu.au/conferences/acisp%202008/index.html">www.upw.edu.au/conferences/acisp%202008/index.html</a>	UOW		University of Wollongong
22/07/2008	Australian Energy & Utility Summit 2008	<a href="http://www.acevents.com.au/energy2008/">http://www.acevents.com.au/energy2008/</a>	ACE Events		Sydney Convention & Exhibition Centre
24/07/2008	Chatswood/Epping Railway line	Mr Maunsell, Rail Infrastructure Group	Joint Program	Ian Kennedy / Mark Edmunds	6:00pm 8 Thomas St, Chatswood
27/07/2008	17th International conference on photochemical conversion and storage of solar energy	<a href="http://www.ips17.com">www.ips17.com</a>	ips	see web	see website
28/07/2008 - 1/08/2008	International conference on Electronic materials		see website	Helen Woodall helen@materialsaustralia.com.au	see website
4/08/2008 - 12/08/2008	Engineering Week	<a href="http://www.engineeringweek.org.au/">http://www.engineeringweek.org.au/</a>	Joint		see website
4/08/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00~9:00pm) Seminar Room - Library Gore Hill TAFE
11/08/2008	Designing Ultra-Wide Bandwidth (UWB) Receivers for Multi-User Interference Environments	Prof. Norman Beaulieu	IEEE ComSig DL		
14/08/2008	The criteria for the selection of Variable Speed Drives (VSDs)	Adrian Heaton, ABB	Joint Program (IET)	Upali / John Englefield	6:00pm 8 Thomas St, Chatswood
28/08/2008	Military Infrastructures	Thales/ADI-John Best VP Technology	Joint Program (IET)	John Englefield	6:00pm 8 Thomas St, Chatswood
1/09/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00~9:00pm) Seminar Room - Library Gore Hill TAFE (TBC)
1/09/2008	National Power Australia (fees may apply)	<a href="http://www.terrapinn.com/2008/power.au/">http://www.terrapinn.com/2008/power.au/</a>	Terrapinn		InterContinental Sydney
11/09/2008	Gippsland Water <sup>2</sup> -CH2M Speaker	George Gaughan	Joint Program (IET)	Upali / John Englefield	6:00pm 8 Thomas St, Chatswood
25/09/2008	"Efficient AC/DC Switching Power Supplies Design"	Dylan D.C. LU, USYD	Joint Program (IEEE)	David Burger	6:00pm 8 Thomas St, Chatswood
28/09/2008 - 1/10/2008	2008 13th International Conference on Harmonics and Quality of Power (ICHQP XIII) Formerly - ICHPS	<a href="http://www.ichqp2008.org.au/">http://www.ichqp2008.org.au/</a>	IEEE PES	<a href="mailto:ichqp08@elec.uow.edu.au">ichqp08@elec.uow.edu.au</a>	University of Wollongong
9/10/2008	Smart Motor Starters	Adam Jones, Schneider Electric	Joint Program	Upali / John Englefield	6:00pm 8 Thomas St, Chatswood
13/10/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	6:30pm UWS - Rydalmere
23/10/2008	Below the Surface: The Role of IT in Maintenance of Road Infrastructure	Phil Mallon, RTA	Joint Program	Peter Hitchiner	6:00pm 8 Thomas St, Chatswood
28/10/2008	EA joint with civil and structure – "Private Certification", (Fees apply)	Lyall Dix	EA	Allan Sangster	? Maybe afternoon at Chatswood RSL ?? TBC..
29/10/2008 - 31/10/2008	EESA NSW Conference: Energy NSW 2008 ... The [R]Evolution in Networks (fees may apply)		NSW Chapter of (EESA)	<a href="mailto:eesa@trmm.com.au">eesa@trmm.com.au</a>	conference and trade exhibition at the Powerhouse Museum
3/11/2008	IEEE NSW SECTION - Meeting		IEEE	Secretary	(7:00~9:00pm) Seminar Room - Library Gore Hill TAFE
13/11/2008	Software Testing	EA joint with metrology society	Joint Program (EA & MS)		6:00pm 8 Thomas St, Chatswood
27/11/2008	iTech Corporation talking about embedded systems and outsourcing	Nick Fondas – I tech Corporation	Joint Program	Peter Hitchiner	6:00pm 8 Thomas St, Chatswood
27/11/2008	Engineers Australia Electrical branch AGM.			Peter Hitchiner	5:00pm 8 Thomas St, Chatswood
28/11/2008	IEEE NSW Section AGM / DINNER		IEEE	Secretary	(6:00pm to 10:00pm) Crowne Plaza, Paramatta
9/12/2008 - 12/12/2008	IEEEWIC/ACM International Conference on Web Intelligence & IEEEWIC/ACM International Conference on Intelligent Agent Technology	<a href="http://datamining.it.uts.edu.au/wi08/html/wi/">http://datamining.it.uts.edu.au/wi08/html/wi/</a>	IEEE Computer Society		Citigate Central Hotel, 169-179 Thomas Street
14/12/2008 - 17/12/2008	Australian University Power Engineering Conference		IEEE PES Cosponsor	<a href="mailto:f.rahman@unsw.edu.au">f.rahman@unsw.edu.au</a>	University of New South Wales

## 5. New South Wales Section Committee Nomination for 2009

The Nominations Committee invites members to submit nominations for appointments for the 2009 NSW Section Committee. Please return the completed form by **28 August 2008**. All nominations for NSW Section Committee members will be considered at the Annual General Meeting, to be held on 28 November 2008, at which all the 2009 Executive Office holders will be elected and other Committee Members will be appointed in the first 2009 IEEE NSW Section Meeting on 2 February 2008.

The available nomination of appointments within the IEEE NSW Section are:

NSW Section Executive Committee - Chair, Vice Chair, Treasurer, Secretary  
Newsletter Circuit Editor  
Fellow Search Chair  
Membership Development Chair  
Professional Activities Chair  
Educational Activities Chair  
Student Activities Chair  
GOLD Chair  
Awards and Recognition Chair  
Life Member Affinity Chair  
Nomination Chair  
Historian Chair  
Webmaster  
Conference Coordinator Chair  
Committee members

To date, the following NSW Section Committee nominations have been received for:

Vassilios Agelidis, Jeff Armitstead, David Burger, Kate Carruthers, Kim Chin, Iain Collings, Karu Esselle, Eddie Fong, Sara Hakami, Ali Hellany, Candice Gillmore, Graeme Gwilliam, Walter Lachs, Mark Lee, Bruce Poon, Faz Rahman, Sam Reisenfeld, John Robinson, Ananda Sanagavarapu, Danny Sutanto, David Tien, Graham Town, Nuala Ward, Antony Zaglas, and Ramutis Zakarevicius.

Please detach-----

### 2009 Committee Member Nomination Form

Name:..... Signature:.....

Member No:..... Member Grade:.....

Address:..... Postcode:.....

Tel: (H).....(W).....(M).....FAX.....

Email: .....

#### Kindly Post to:

IEEE Committee, C/O AUSTRALIAN PROFESSIONAL CENTRE, PO Box 576. CROWS NEST NSW 1585

Or Fax: +61 2 94318677



## 6. IEEE NSW Section 2008 Annual General Meeting Reservation

**Date:** Friday, 28 November 2008

**Times:** 6pm Chapters' AGMs , 7pm NSW Section AGM, and 8pm NSW Section Dinner

**Venue:** Crowne Plaza (Parramatta), 20 Phillip Street, Parramatta, NSW 2150. Tel: 9689 3333 and [www.crowneplazaparramatta.com.au](http://www.crowneplazaparramatta.com.au)

**Hotel Room:** \$160 per double bed room (through IEEE) subject to availability

**Car Park:** \$10 car park in the hotel subject to availability

**Contribution:** \$30 per person (including drinks on table). Enclosed is payment of \$..... for ..... persons

**Name:**.....Tel: (W)..... (H)..... (M).....

**Address:**.....Postcode.....

Membership number: .....

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

**Kindly Post or fax by 31 October 2008 to:**

IEEE NSW Secretary, C/O Australian Professional Centre, PO Box 576. CROWS NEST NSW 1585

Or Fax: +61 2 9130 4574 Or email [antonyz@ieee.org](mailto:antonyz@ieee.org)

## 7. Continue to Receive Circuit by Post

**Circuit** is currently provided electronically from the IEEE NSW Section Website <http://ewh.ieee.org/r10/nsw>. Members will be notified by email when a new issue is posted on the Website. A printed copy of **Circuit** will only be sent on request by members and for those without an email address.

If you require a printed copy of **Circuit** mailed to you, please complete the form below:

**Note: If you have previously returned this form, there is no need to send it again.**

Please Detach-----

**Yes, I want to receive *Circuit* by post**

Name:..... Member No:.....

Address:..... Postcode:.....

Tel: (H).....(W).....(M).....FAX.....

Email: .....

**Post to:**

Circuit Editor, C/O Australian Professional Centre, PO Box 576. CROWS NEST NSW 1585

Or Fax: 61 2 94318677

*Circuit* reaches over 2200 IEEE members in NSW.

For advertising in *Circuit*

Please contact:

Eddie Fong at +614 13777511 or [eddiefong@ieee.org](mailto:eddiefong@ieee.org)



The Institute of Electrical and Electronics Engineers, Inc.

**Secretariat:**

AUSTRALIAN PROFESSIONAL CENTRE  
PO Box 576  
CROWS NEST NSW 1585  
Tel: 61 2 94318600 Fax: 61 2 94318677  
Web page: <http://ewh.ieee.org/r10/nsw>

IEEE NEW SOUTH WALES SECTION  
ARBN 078 576 495 ABN 34 078 576 495  
Editor: Eddie Fong  
Email: [eddiefong@ieee.org](mailto:eddiefong@ieee.org)

**Volume 31 Issue 3**

**November 2008**

## Contents

Item	Page
<i>Editorial</i>	1
1. <i>Message from the Chair</i>	1
2. <i>News In Brief</i>	2
3. <i>Chapter News</i>	6
4. <i>Technical Meetings &amp; Conferences</i>	7
5. <i>NSW Section 2008 AGM/Dinner Reservation</i>	8
6. <i>Continue to Receive CIRCUIT by Post</i>	8

## Editorial

I have always believed that we need to enhance the benefits that we can offer to IEEE NSW members. The NSW Section Committee has recently agreed to explore various benefits and one of them is Corporate Travel for our members.

I am pleased to share the latest good news - Donna Barlow Corporate Travel (DBT) will now be able to offer corporate travel and travel insurance services to IEEE members. Finally, we as individuals can now enjoy corporate travel services in planning our regional and overseas trips by letting DBT take care of our travel. You can find their details in this issue of Circuit and how to make use of their service. We will release other benefits as they become available

I have also suggested that IEEE member benefits for Regions 1 to 6 will also be made available to Regions 7 to 10. This was raised in the 2008 Section Congress held in Quebec City, Canada and was selected and will be presented to the IEEE Board of Directors for consideration as one of the 10 consolidated recommendations from all the Regions for IEEE to work on.



**Eddie Fong** [eddiefong@ieee.org](mailto:eddiefong@ieee.org)  
Editor, Circuit Newsletter, NSW Section

## 1. Message from the Chair

Another year is drawing to a close in what seems an accelerating time machine. Measuring the amount of value we have provided our members here in NSW is arguably more subjective. Let's have a quick re-cap on some of the more significant things we have undertaken. We have expanded the Communications and Signal Processing Society Chapters by adding the Oceans Engineering Society, we have formalized the LEOS and Circuits Systems Chapter in one, two major conferences here by the Computer Society and the Communications Society, and around 160 sponsored student memberships, the highest for 4 years.

Looking forward, 2009 is the 125th Anniversary for the IEEE, and every event conducted through 2009 will be identified as an 'IEEE 125 year Anniversary' event. Planning for a major anniversary dinner on the 13th March 2009 (the actual anniversary date) will commence shortly, and any ideas, suggestions, assistance would be fantastic. Please communicate your ideas to the Committee at your earliest convenience. One of the events that I am personally championing through the IEEE is a "Gadget Summit", where inventors, eccentrics and students can engage in a gadget display and presentation, and hopefully some type of award recognition from IEEE NSW. There are many challenges with delivering on this idea, not only with patent law, but with publicity, contractual waivers and of course the inventions, gadgets and gizmo's themselves.

As part of the ongoing succession plans with the committee for IEEE NSW, we have had three NSW participants attend the triennial IEEE Sections Congress (SC'08), where representatives from all 293 Sections in the world meet and share ideas, visions, experiences and establish contacts. The challenge facing the IEEE is maintaining its relevance, its values and initiatives in the face of changing social behavior. The 2008 Section Congress communicated means of engaging the media, with technology news, awards and recognition and raising the profile of important individuals. There is no Nobel Prize for technologists, and the IEEE is working to establish the IEEE Medal of Honor as the highest global technology award.

The 2008 Section Congress also gave attendees a first hand look at the personal stories behind 8 of the past IEEE presidents, as well as allowing us to meet some of the characters within the IEEE. It is apparent that most IEEE Sections face similar issues, as well stimulating lateral ideas to adapt what IEEE offers members.

Our NSW Section website has been quietly transformed into a Joomla content management system, and we must offer our sincere thanks to Mr. Eduardo Navarro from Puerto Rico. We are getting very close to being able to manage our own web content now, and we can now focus more on keeping web content up to date rather than whiz bang HTML coding heroics.

Please consider getting involved in IEEE activities going forward, either as an event presenter, committee or even just attending our events. You are cordially invited to the IEEE NSW Annual General Meeting and Dinner, please RSVP on the form in this issue.



**David Burger** [k3hz@ieee.org](mailto:k3hz@ieee.org)  
Chair, NSW Section

## 2. News in Brief

### 2.1. Gold from Around the World

In Quebec City, Canada, we all gathered to see how valuable Gold is, especially when it's IEEE Gold members, Graduates of the last decade.

This year, 2008 Section Congress experienced its very first Gold Summit on 18 and 19 September 2008. In these two busy and fun days, more than 70 Gold delegates from around the world gathered to network and learn about the importance of IEEE Gold members, the young engineers who are the fresh blood of the engineering community. IEEE analysts also believe that the transition from being a student to becoming a graduate has important implications on IEEE membership statistics, as this is when student members become full members and also it when they leave the academic community and join industry. Therefore IEEE has defined the Student Transition and Elevation Partnership (STEP) to inform students of the advantages of Gold membership, and also to provide Gold members with the networking opportunities and cutting-edge information that a young professional requires.

The first implementations of this program will be experimented around the world in 2009. The IEEE community hopes to see improved retention of young members and increased involvement of Gold volunteers as a result.



Gold delegates at Gold Summit 2008, Quebec City



**Sara Hakami**  
UNSW Student Branch

### 2.2. NSW Section AGM and Dinner – 28 November 2008

This year, we are hosting the NSW Section Annual General Meeting (AGM) at Crowne Plaza Hotel, 30 Philip Street, Parramatta, NSW 2150 on Friday, 28 Nov 2008, commencing at 7pm sharp.



The Annual Dinner will follow after the conclusion of the NSW Section AGM at 8pm. The cost of the dinner is \$30 per person inclusive of drinks. This is the time for all IEEE members and their partners to meet and network.

For those members wishing to attend but have not submitted their reservation form, please do so as the reservation has now been extended to 10 November 2008.

Prior to the NSW Section AGM, Chapters will conduct their AGMs to elect new office bearers from 6pm at Crowne Plaza. All Chapter Chairs will conclude their meetings by 7 pm and also provide annual reports for

distribution at the NSW Section AGM.

### **Proposed Agenda - NSW Section AGM 2008**

1. Attendance and Apologies
2. Minutes of 2007 AGM
3. Business arising
4. Section Chair Report
5. Section Treasurer Report
6. Chapter Reports
7. 2009 Section Committee
8. Other General Businesses

### **2.3. 2008 Section Congress in Quebec City, Canada – 19 to 22 Oct 2008**

The Member and Geographic Activities (MGA) Board partnered with Region 7 and Quebec Section in hosting the 2008 Section Congress in Quebec City, Canada from 19 to 22 September 2008. There were 1,072 attendees from 89 countries representing 293 Sections.

IEEE Honours Ceremony was held on 20 September 2008. IEEE President presented 22 awards at the Ceremony. The Medal of Honour was presented to Dr. Godon Moore, Co-founder and Chairman of the Board, Emeritus, of Intel Corporation.

The 2008 Section Congress provided Section Chairs to speak, share and discuss their view for change. Final recommendations from all the Regions were ranked and the top ten will be presented to the IEEE Board of Directors at its November meeting. The top 10 recommendations are:

1. Every member to have an annual entitlement to a limited number of free IEEE Xplore downloads
2. Payment Flexibility
3. Provide "Leadership Training Handbook for Section Officers"
4. MGA Board to assign staff to develop, a user friendly system and support to enable Sections, Chapters, and Affinity Groups to deliver, at low cost, teleconferencing, collaborative technologies and webinars as a free member benefit.
5. For digital libraries – to develop additional, smaller tiered packages which allow members to purchase defined quantities of digital content without expiration and provide permanent access to previously purchased content.
6. Improve the implementation of recommendations identified at Sections Congress
7. There are a good number of IEEE member benefits that are relevant or accessible to Region 1 to 6 members only, should implement similar benefits of local relevance across all Regions.

8. Sections and Chapters need a web based payment solution for small local events
9. Provide support and tools for the creation and maintenance of easy to update Section Web
10. Implement sustained membership options for all membership grades except Student grade

The Board then assigns each of the 10 recommendations to specific IEEE business units for action.

### **2.4. IEEE's 125 Anniversary**

IEEE is looking forward to 2009, to celebrate IEEE's 125th anniversary. Every event conducted in 2009 will be identified as an IEEE 125 year Anniversary event.

At this stage, R10 Student Activities Committee (SAC) is planning to host the Global Student Congress to commemorate the 125<sup>th</sup> Anniversary of IEEE to be held in October 2009.

Information about other activities can be found on the new 125th Anniversary Web site, which has message boards, a series of video greetings from members and some well-known technology leaders, and other interactive features.

### **2.5. Welcome to Our New Members and Upgrade Members**

From June to September 2008, we have the following new members or newly upgraded members:

#### **Life Senior Member Grade**

Martin R Sanders

#### **Senior Member Grade**

Shanmugam Chandrasekaran  
Jingling Xue  
Dan C Popescu  
Prashantha K Premaratne  
Christian H Ritz  
Jing Chen  
Willy Susilo

#### **Member Grade**

Simon D Boland  
Nihar T Trivedi  
Shanta P Jayawardana  
Jurgen H Opfer  
Salvatore Mattera  
G Wilson  
Rimas G Keblikas  
Golam M Sorwar  
Kingsley R W Jones  
Vicknarajah Prahatheesan

Fred Fetherston  
 Ido Nevat  
 Joshua A Graham  
 Jamie S Cullen  
 Dallas Clarke  
 Roman Katz  
 Nectarios Costadopoulos  
 David L Death  
 Suvomoy Rakkhit  
 Damitha C Herath  
 Prabath Kamalasena  
 Anil Roychoudhry  
 Daniel J Ryan  
 Arvind C Baldeo  
 Wei D Ding  
 Sobhath R Ekanayake  
 Adriel P Kind  
 Claudio E Ferrero  
 Shahpar Ahmed  
 Tony Young  
 Yong Xia  
 James G Petersen  
 Patrick J Barnes  
 Weizhen Zhou  
 Vijay N Pandit  
 Xiao F Dong  
 Paula M Mcewen  
 Alister Cordiner  
 Wilson Pok  
 Anjum Naveed  
 Steven J Fone  
 Dean A Cooper  
 Wai Jacky Keung  
 Alison E Norris  
 Tauseef Gulrez  
 Mohaddeseh Nosratighods  
 Glen F English  
 Ross Forsyth  
 Matthew Imhoff  
 Liang Wang  
 Ayman Ghoneim  
 Ka Ming Leung  
 Jacqueline Qiu  
 Muhammad S Nawaz  
 Hung Q Ta  
 Kha H Ha  
 Zhe Xu  
 Khaled Khankan  
 Wilson Wong  
 Golam Sarwar  
 Jonathan David Point  
 Alejandro Ruiz Rivera  
 George Lazarou  
 Qim Yi Lee  
 Paul Rigby  
 Yue Liu

Michael Kurniadi  
 Mikhail Prokopenko  
 Artem Parakhine  
 Samir Talati  
 Chengyu Krystian Ji  
 Wei Li  
 Joan Lee  
 Muhammad Uzair  
 Sharmini Weerasinghe  
 Anthony John Leo  
 Crystal Huang  
 Gosciniak Jacek  
 Ming Chen  
 Gibbs Terence Gibbs  
 Hezhou Hu  
 Xuebin Fan  
 Aditi Anand  
 Colin Crisafulli  
 Jason Williams Owen  
 Rhys Horn  
 Can Quoc Nguyen  
 Nicholas Heyke  
 Nima Talebi  
 James Gregory  
 Mark Holden  
 David John Campbell  
 Damian Romano  
 anthony Charles Percy  
 Luke Paul Darnell  
 Kevin Wong  
 Tony Hancock  
 Bronwyn Stell  
 Daniel John Wedge  
 Sammy Spets  
 Mohammed Raad  
 Tuan Quang Pham  
 Andrew John McCausland  
 Christoph Jonas Brem  
 Mark James Cotterell  
 Darren So  
 Ryad Jalil  
 Graham Robert Seach  
 Michael John Hale  
 Michael James Wolfe  
 David Taylor  
 Earl Kohler  
 Ruiqin Xiong  
 Peter William Ilbery  
 Glenn Powell  
 Subhagata Chattopadhyay  
 Bianca Wirth  
 Shane Feeney  
 Osei Boakye-Yiadom  
 Kuldeep Jain  
 Roy Francis Brown  
 Shane Cooper



Xiangyu Wang  
 Eddy Luigi Giacomel  
 Susanna Guatelli  
 Daniel John Lavis  
 HASSAN ALI  
 Angus Murdoch Ferguson  
 Vincenzo Caruso  
 Astrid Zeman  
 Mark Pescud  
 Ian Roderick Paterson  
 Bjoern Sebastian Rueffer  
 William Simpson-Young  
 Jantima Polpinij  
 Damian McNamara  
 Wei Xu  
 Jarrad Springett

Ricardo P Aguilera-Echeverria  
 Suparerk Manitpornsut  
 Wee Han Lim  
 Kevin Adistambha  
 Jie Xu  
 Sakrapee Paisitkriangkrai  
 Mark Whitty  
 Mitra Safavi-Naeini  
 Werayut Saesue  
 Sakhinah Abu Bakar  
 Yun Zhang  
 Zhidong Li  
 Naomi Henderson  
 Khairul Azhar Kasmiran  
 Ahmed Fawzi Otoom  
 Saleh Mabrook Alsayari  
 Soumya Chowdhury  
 Hiren Bhupendra Prajapati  
 Jantima Polpinij  
 Sukhwinder Singh  
 Narayanaswamy P.R. Iyer  
 William Corcoran

#### **Associate Grade**

Aubrey G Jarkey  
 Narinder Chhabra  
 Farid M Ahmad  
 Mo Li  
 Sankika Tennakoon  
 Daniel Tse  
 George Koukas  
 Zhi Li  
 Jennifer McKenzie  
 Fang Xie  
 CY Vanessa li  
 Biju Nair  
 Houssam Sassine  
 Rafeave Bencardino  
 Craig Reid  
 iain mclaren mason  
 Christelle Monat  
 Roman Kielich  
 Tomasz Eugeniusz Wieteszk

#### **Affiliate Grade**

I Peter Farrell  
 G Ziegler  
 Victor M Lambe  
 John Bennett  
 Erik F Biester  
 Stephen Bott  
 John Robertson  
 Steven Ferrier  
 Humphrey Gitonga  
 vijaya chemalamarri  
 Roberto Amici  
 Christopher Mewett  
 I Peter Farrell

#### **Graduate Student Grade**

Hassan Achi  
 Abdul H Al Omari

#### **Student Grade**

Eleazar R Tortal  
 Paul Cayfordhowell  
 Po-Hsiang Tsai  
 Janarthanan Vethalingam  
 Shueb Sarkar  
 Jon Schmitz  
 Benjamin McAlary  
 Muhammad Syafiq Husni Ahmad  
 Zawawi  
 Jack Bosanquet  
 Araya Sununkingpet  
 David Mann  
 Nandika Thapar  
 Prasant Kumar Misra  
 Ashoka ananda Amuwalage  
 Ramsen Mikhaeel  
 apenisa tibika  
 Kenneth William Smart  
 Christopher Wright  
 Robert Stephen Estherby  
 Nicholas Stuart Campbell  
 Mark Cardamis

## **2.6. Life Members**

The next Life Members Meeting will be held at the Annual Dinner after the AGM on Friday 28 November. There will be no charge for the first 4 life members and their partners who make a booking. Please contact Olivia Robinson on 9418 6209 to make your claim before 21 November.

## 2.7. 2009 Membership Renewal

Your 2009 membership renewal package will arrive in the mail soon, or you can renew online right now.

Renew before 15 November and you'll be entered into a draw to win one of three laptops.

## 3. Chapter News

### 3.1 ComSig Chapter

It has been a busy couple of months for the Joint Communications and Signal Processing Chapter. We started with three successful lectures from IEEE Distinguished Lecturer Prof Norman Beaulieu, the Canada Research Chair in Broadband Wireless Communications, at the University of Alberta, Edmonton, Canada. He talked to us about "Designing Ultra-Wide Bandwidth (UWB) Receivers for Multi-User Interference Environments", and he made the presentations at CSIRO's ICT Centre, UNSW and the University of Newcastle. Roughly 60 people attended the events, which were warmly received, and it was especially good to get out of Sydney and visit some of our regional areas of NSW. We were treated to some excellent insights into the current status of UWB, and even enjoyed some of Norm's jokes about Australian beer!

Last week I attended the IEEE Communications Society Asia Pacific Regional Chapters Chair Congress (AP-RCCC), and the IEEE Communications Society Asia Pacific Sister Societies Summit (SSS) 2008, jointly held in Tokyo. It was a very interesting insight into the workings of the IEEE, particularly in the Asia Pacific region. Much of the discussion was around the topic of attracting new members, and how best to serve current members. The magazines and Chapter meetings were seen as important to members, as well as chances for networking and mentoring through the organization. If you have any comments or suggestions on things which we can do to improve the benefits of your membership, please drop me an email.

Other activities during the past month or so include our Section and Chapter's decision to technically sponsor the upcoming Australian Communication Theory Workshop, to be held in Sydney in February 2009.

Keep an eye on the calendar for future events leading up to Christmas. I look forward to meeting you at the Section AGM, or at another of our events.



Iain Collings [i.collings@ieee.org](mailto:i.collings@ieee.org)  
Chair, ComSig Chapter

### 3.2. Power & Energy Society & Life Members

Distinguished Lecturer Prof Roma Rinkeviciene from Vilnius Gediminas Technical University, Lithuania gave two lectures at the Energy Australia Auditorium in Sydney on 23 Sept 2008. The first lecture was on the development of the Lithuanian Energy Sector, the second on Women in Electrical Engineering in Lithuania. Kim Chin is arranging to form an affinity group for WIE and all women members are asked to contact her at [kim.chin@ieee.org](mailto:kim.chin@ieee.org)

Special thanks are due to Patrick McMullan, Energy Australia for donating the facilities and providing light refreshments. Also many thanks to Alan Harvey from the Victorian Section, who did all the hard work bringing Roma to Australia and Zac and Ramona Zakarevicius who worked on the local arrangements.

Next year our Vice Chair, Prof Vassilios Agelidis will be giving a lecture on Thursday 12 March 2009 for the Joint Institutions Lecture Program at Engineers Australia, Chatswood. His presentation will deal with the advances made in the development of Flexible Alternating Current Transmission System (FACTS) Technologies. Vassilios is also to be congratulated on raising considerable funds for the establishment of a new Power Engineering facility at the University of Sydney.



John L Robinson [jl.robinson@ieee.org](mailto:jl.robinson@ieee.org)  
Chair, Power & Energy Chapter & Life Members

## 4. Technical Meetings & Conferences

All members are cordially invited to attend these joint meetings with the Engineers Australia (EA), IEEE and IET. These joint meetings are held at 6.00 pm (with light refreshments from 5:30pm) at the Engineers Australia, 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 Engineers Australia at <http://sydney.ieaust.org.au/weekevents.html> to prevent any potential disappointment due to last minute changes.

2008	Event	Speaker	Host	Contact / Chair	Venue [ensure you re-confirm beforehand]
27/11/2008	iTech Corporation talking about embedded systems and outsourcing	Nick Fondas – I tech Corporation	Joint Program	Peter Hitchiner	6:00pm 8 Thomas St, Chatswood
27/11/2008	Engineers Australia Electrical branch AGM.			Peter Hitchiner	5:00pm 8 Thomas St, Chatswood
28/11/2008	IEEE NSW Section AGM / DINNER	NSW Section Committee	IEEE	Secretary	Crowne Plaza, 30 Phillip Street, Parramatta 2150 from 7:00pm to 11:00pm
9/12/2008 - 12/12/2008	IEEE/WIC/ACM International Conference on Web Intelligence & IEEE/WIC/ACM International Conference on Intelligent Agent Technology	<a href="http://datamining.it.uts.edu.au/wi08/html/wi/">http://datamining.it.uts.edu.au/wi08/html/wi/</a>	IEEE Computer Society		Citigate Central Hotel, 169-179 Thomas Street
14/12/2008 - 17/12/2008	Australian University Power Engineering Conference		IEEE PES Cosponsor	f.rahman@unsw.edu.au	University of New South Wales
2009	Event	Speaker	Host	Contact	Venue [ensure you re-confirm beforehand]
3/2009	AustraliaCom'09 (fees may apply)		IEEE	E-mail: samr@uts.edu.au	TBA





DBT welcomes our partnership with the IEEE and their Members. We specialize in Corporate and Leisure Travel to every corner of the globe. DBT offers IEEE and their members the following exclusive benefits:

- Full Travel Management - Solutions & Profile Management
- Advanced, proven technology
- Cost effective travel management & economical alternatives in products
- "Open Sky" and best fare of the day policy – domestic & international airfares
- Hotel & Car Hire contract rate arrangements
- Travel Policy captivating Online Booking Engine Solutions (Flightscene)
- Global Assistance and true 24/7 emergency customer care contact facility
- VIP – golden glove treatment
- Experience Leisure and Cruise Consultants with more than 20 years experience
- 25% off Travel Insurance

Our website – [www.flightscene.com.au](http://www.flightscene.com.au) is IEEE's assigned Online Booking Tool. IEEE bookers please insert the Code (IEEE) in the special request box just for the IEEE tracking & reporting.

For all your Corporate and Leisure Travel call 1 800 678555 or E-mail your request to [Stefan@dbt.com.au](mailto:Stefan@dbt.com.au).

WE SMILE ☺ AND WE CARE



# ELEVENTH AUSTRALIAN SYMPOSIUM ON ANTENNAS

## Sydney

18-19 February 2009



### Call for Abstracts

The Symposium aims to bring together engineers, scientists, and industry representatives working in antennas and related areas to discuss developments relevant to Australia. It is sponsored by CSIRO ICT Centre.

You are invited to attend and participate in this major technical event, and we encourage you to submit an abstract on a topic of current interest.

- Full registration costs \$350 and \$250 for students and retirees (GST inclusive), if prepaid prior to 31 December 2008.
- There will be a \$600 prize for the best student presentation.
- Abstracts are required by 28 November 2008.
- See website for registration and submission of abstracts. For further information, contact Ms Dallas Rolph (02) 9372 4289, fax (02) 9372 4446. email: [dallas.rolph@csiro.au](mailto:dallas.rolph@csiro.au).

## 6. IEEE NSW Section 2008 Annual General Meeting Reservation

**Date:** Friday, 28 November 2008

**Times:** 6pm Chapters' AGMs , 7pm NSW Section AGM, and 8pm NSW Section Dinner

**Venue:** Crowne Plaza (Parramatta), 30 Phillip Street, Parramatta, NSW 2150. Tel: 9689 3333 and [www.crowneplazaparramatta.com.au](http://www.crowneplazaparramatta.com.au)

**Hotel Room:** \$160 per double bed room (through IEEE) subject to availability

**Car Park:** \$10 car park in the hotel subject to availability

**Contribution:** \$30 per person (including drinks on table). Enclosed is payment of \$..... for ..... persons

**Name:**.....Tel: (W)..... (H)..... (M).....

**Address:**.....Postcode.....membership number:.....

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

**Kindly Post or fax by 10 November 2008 to:**

IEEE NSW Treasurer, C/O Australian Professional Centre, PO Box 576. CROWS NEST NSW 1585

Or Fax: +61 2 9130 4574 or email [nuala.ward@ieee.org](mailto:nuala.ward@ieee.org)

## 7. Continue to Receive Circuit by Post

**Circuit** is currently provided electronically from the IEEE NSW Section Website <http://ewh.ieee.org/r10/nsw>. Members will be notified by email when a new issue is posted on the Website. A printed copy of **Circuit** will only be sent on request by members and for those without an email address.

If you require a printed copy of **Circuit** mailed to you, please complete the form below:

**Note: If you have previously returned this form, there is no need to send it again.**

Please Detach-----

**Yes, I want to receive *Circuit* by post**

Name:..... Member No:.....

Address:..... Postcode:.....

Tel: (H).....(W).....(M).....FAX.....

Email: .....

**Post to:**

Circuit Editor, C/O Australian Professional Centre, PO Box 576. CROWS NEST NSW 1585

Or Fax: 61 2 94318677

*Circuit* reaches over 2200 IEEE members in NSW.  
For advertising in *Circuit*

Please contact:

Eddie Fong at +614 13777511 or [eddiefong@ieee.org](mailto:eddiefong@ieee.org)

## IEEE New South Wales (NSW) Section, 2008 Annual General Meeting Report



Prepared by David E Burger [k3hz@ieee.org](mailto:k3hz@ieee.org)  
Section Chair – 2008.  
Report date 23 November 2008.

### PART A - SECTION SUMMARY

#### A.1 Executive Summary

Major Events and Achievements in 2008:

- Acceptance of the Cochlear IEEE Milestones nomination on 26 February 2008 by the IEEE History Center, Rutgers University. This is a first milestone nomination (and acceptance) to be obtained in Oceania and the first in Region 10 outside of Japan. A supplementary update was made in October'08, with the award outcome still pending.
- Introduction of a recognition award for the best speaker in the 2008 Joint lecture program. This is titled the "IEEE NSW Best Speaker Award in 2008, in memorial of Jim Vasseleu". The award is still being considered by the Awards Committee.
- Macquarie University student Michael Boers won the global IEEE MTT High Efficiency Power Amplifier Competition award, producing a 10 watt amplifier operating at 1.2Ghz with an efficiency of 80%.
- Mr Don Black, Chair of the Orange County Section in California visited and met with our Section here in February 2008, with a visit to The University of Sydney.
- Mr Roberto Saracco, 2008 appointed Director of the IEEE Communications Society visited our section from Italy on 4th March'08 and met with Communications Society members here.
- IEEE Communications Society distinguished lecturer Prof. Norman Beaulieu visited Sydney on 11-12 August'08.
- The successful conversion throughout the year of our EWH website to a Joomla content management system by Mr Eduardo Navarro of Puerto Rico, we now fully comply with IEEE web format and branding guidelines. The appointment of Fuat Acar to undertake web content management update activities was done in Oct 2008.
- A strong representation by IEEE NSW at the Quebec City 2008 Sections Congress with Eddie Fong and David Burger attending, and at the IEEE GOLD Congress with Ms Sarah Hakami attending.
- A major porting of the IEEE NSW History and heritage material and content across to the new IEEE Global History Network located at [www.ieeeahn.org/wiki](http://www.ieeeahn.org/wiki) This commenced in November 2008, and is in preparation for the IEEE 125 year anniversary for 2009.
- Mr Bob Grow, 2008 Chair IEEE-SA Standards Board, visited and met with our Section in late November'08, in a logistics review of Sydney venues.

#### A.2 Financial Report

Opening balance of our CBA cheque account at 1 Jan 2008 was AUD\$34,669.22  
and Investment account balance AUD\$123,598.09

Please refer to the separate financial report tabled for the 2008 AGM.

### A.3 List of Section Officer and Executive Committee Members

#### IEEE New South Wales Section - 2008 Committee

##### Executive Committee Members

Chairman	<a href="#">David Burger</a>
Vice-Chairman	<a href="#">David Tien</a>
Secretary	<a href="#">Antony Zaglas</a>
Treasurer	<a href="#">Nuala Ward</a>

##### Section Officers

Fellow Search	<a href="#">Walter Lachs</a>
Past Chair	<a href="#">Graeme Gwilliam</a>
Membership Development	<a href="#">Bruce Poon</a>
Professional Activities	<a href="#">David Burger</a>
Educational Activities	<a href="#">Ms Kim Chin</a>
Student Activities	<a href="#">Ali Hellany</a>
Awards and Recognition	<a href="#">Zak Zakarevicius</a>
Life Member Activities	<a href="#">John Robinson</a>
Nominations	<a href="#">Graham Gwilliam</a> , <a href="#">Bruce Poon</a>
Newsletter Editor	<a href="#">Eddie Fong</a>
GOLD Affinity Group	<a href="#">Alejandro Monroy</a> / Sarah Hakami
Historian	<a href="#">David Burger</a>
PEL/IAS/IE Chapter Chair	<a href="#">Danny Soetanto</a>
Comms/Sig Processing Chair	<a href="#">Iain Collings</a>
AP/MTT Chapter Chair	<a href="#">Ananda Sanagavarapu</a>
EMBS Chapter Chair	<a href="#">Jeff Armitstead</a>
LEOS/SSC/CS Chapter Chair	<a href="#">Graham Town</a>
Computer Chapter Chair	<a href="#">Kate Carruthers</a>
PES Chapter Chair	<a href="#">John Robinson</a>
Education Chapter Chair	<a href="#">Mark Lee</a>

## PART B - ORGANISATIONAL ACTIVITIES

### B.1 Membership Development Programs

- Effort in Membership Development

The IEEE NSW Section targeted another 200 free student memberships in 2008. The sponsored memberships were for first time student members only. A total of 164 student members were sponsored in 2008. We also increased our visibility at Universities with posters, as well as maintaining a public "Google Calendar" for all our local NSW events. Many thanks to Mr Pankaj Mehta from Wollongong for keeping this up to date.

The IEEE NSW google calendar event weblink is located here→

<http://www.google.com/calendar/embed?src=k3hz%40ieee.org&ctz=Australia/Sydney>

● Evidence of retention of members

2008 showed a good upturn in all membership grades, except for students, where we had across the board drops in memberships at all Universities. We also ran the largest ever student sponsorship program in NSW during 2008. The membership comparison to 2007 is shown below, based on figures as at 31 October.

Classification of IEEE NSW Member		2007	2008	from 2007
		31/10/2007	31/10/2008	
<b>Total Active members</b>		2337	2445	105%
Active members	excluding affiliates	2183	2304	106%
Active Life member	all grades	52	53	102%
Active senior members	including Fellows	156	165	106%
Active student members	all grades	350	304	87%
Active female members		161	162	101%

Student Branch	Number	Number	from 2007
University of New South Wales	132	99	75%
The University of Sydney	57	46	81%
Macquarie University	27	21	78%
University of Technology Sydney	46	21	46%
University of Wollongong	23	18	78%
Western Sydney University of Nepean	14	12	86%
Charles Sturt University	18	8	44%
<b>Total Students</b>	317	225	71%

Society Chapters in NSW	Number	Number	from 2007
Computer	788	770	98%
Communications / Signal Processing	440	479	109%
Power Energy	130	139	107%
Industrial Electronics / Power Electronics / Industrial Applications	88	96	109%
Lasers and Electro-Optics / Circuit and Systems / Solid State Circuits	82	91	111%
Antennas & Propagation / Microwave Theory & Techniques	77	77	100%
Engineering in Medicine and Biology	79	72	91%
Education	15	13	87%
<b>Total Active Chapter members</b>	1699	1737	102%

● GOLD, WIE and Life Members Group Activity

- IEEE NSW GOLD functions were conducted early in 2008 while Alejandro was looking after the GOLD group. Sadly Alejandro's work and finances did not allow him to continue in IEEE or this role, and we understand he has returned back to Bogota. We offer thanks for his participation. Sarah Hakami was appointed to the GOLD Chair in September 2008.
- An affinity start-up petition is still being canvassed for the second year now. A new WiE group here in New South Wales is still proposed. This is being championed by Ms Kim Chin.
- The Life Members will utilise the Nov '08 AGM to welcome new Life Members.

## B.2 Professional and Continuing Education Activities

Continuing Educational activities including conferences, technical event, training courses. IEEE NSW cooperated with the IEEE Australia Council on distinguished lecturer events.

### B.3 Recognised educational Programs.

All our conferences, technical events, training courses are filtered and classified and recognised by IET and Engineers Australia in NSW. IEEE NSW cooperated with the IEEE Australia Council on distinguished lecturer events.

### B.4 Students Activities

#### ● Active Student Branches activity

The University of New South Wales has the most active student branch in our Section, and has participated in all student awards conducted by NSW and the IEEE Australia Council. The University of Western Sydney student branch establishment and growth is being championed by Dr Ali Hellany with full support by the Section.

#### ● Recruitment of student members.

This recruitment drive has grown into two significant areas:

1. A sponsored student member program where the IEEE NSW Section actively sponsors the membership costs of 200 students. There were 70 full year student sponsorships made and 94 half year student sponsorships made in 2008.

2. The IEEE NSW Section participates in first year Electrical Engineering student briefings at The University of Sydney. This is now a regular fixture, and occurs in March each year.

#### ● Student Paper contest

This was developed by recent committee member Dr Ali Hellany of UWS. There are now two prizes on offer, The undergraduate prizes titled the "IEEE NSW Max Simons undergraduate Student Prize", and the "IEEE NSW Jim Vasseleu Postgraduate Student Prize". The implementation and publicity around these new prizes will be launched early 2009 given our academic calendar constraints.

#### ● Student Branch contest

This is promoted on behalf of the IEEE Australia Council where NSW has committee representation.

### B.5 Awards

● IEEE NSW prepared a History Milestone Nomination submission for the cochlear Implant, submitted on 20 September 2007, with acceptance from the IEEE History Center, Rutgers University received on 26 February 2008.

### B.6 Chapter Activities

A summary of Chapter and related Activities is below. The current chapter and section event activity is summarised

below. This should not be considered as the end of year summary, as some events are presently scheduled for December 2008.

Section: NEW SOUTH WALES Type: CHAPTER Geocode: R00509 as at 23 Nov 2008.

IEEE NSW - Chapter / Section Entity	Meetings
AP03/MTT17 - Antennas / Microwave Theory	1
C16 - Computer	1
E25 - Education	3
EMB18 - EMBS	7
GOLD Graduates	2
IE13/IA34/PEL35 - Industrial Electronics	2
LEOS/CAS/SSC - Laser Optics Solid State Circuits	0
LIFE MEMBERS	1
NEW SOUTH WALES SECTION	10
PE31 - Power Energy	1
SP01/COM19 - Signal Processing / Communications	5

### **B.7 E-mail and Newsletter Activities, Home Page**

The NSW Section Chair distributed a monthly activities update e-mail to all members through the IEEE e-Notice facility. We have received good feedback about this style of communication with members.

- Number of hard print Newsletter –

One hardcopy newsletter was sent to all members located in NSW in July'08,

- Number of electronic Newsletters – The Newsletters are titled Circuit.

Three issues were produced in 2008, delivered on both e-mail and web. Additionally there was a monthly e-mail update issued to all members in NSW. An electronic copy of these Newsletters is at our website. For those without e-mail access, paper copies were sent for all three issues.

- Section, Chapters and Student Branches Web Pages

The new South Wales section WebPages includes Chapter links and material at :

<http://ewh.ieee.org/r10/nsw/>

We have engaged an IEEE volunteer Mr Eduardo Navarro from Puerto Rico to get our website migrated to a Joomla content management system. This commenced in May 2008. This has proved to be very successful, even though Eduardo had other significant other commitments to deal with. We express our sincere thanks to Eduardo for helping us out and also to Don Black, Chair of the Orange County Section in California for providing the introductions.

The Section website also includes all our Chapter activities. In October 2008, the committee appointed Mr Fuat Acar to undertake the Joomla content management of our website.

Student Branch WebPages are maintained at:

- University of NSW
- The University of Sydney
- Charles Sturt University
- University of Western Sydney

## **PART C – OTHERS**

### **C.1 Relationship with National Societies**

- An Memo of understanding is active between Engineers Australia and the IET during 2008. We have also cooperated in a 10 day Engineering week program held mid-year with Engineers Australia; with events and a \$1,500 sponsorship from IEEE NSW.
- IEEE NSW also sponsored a Young Engineers speaking function in concert with the Australian Institute of Energy on 22 April.

### **C.2 Special Events**

- There were no special events conducted in 2008, but preliminary planning for the IEEE 125 year anniversary in 2009 was undertaken.

### **C.3 Anticipated Problems**

- None.

## **PART D – GOALS AND PLANS**

### **D.1 Projects / Activities & Implementation Plans**

- To streamline financial matters and handovers between treasurers. The handover of signature to all accounts from the 2006 treasurer to 2007 treasurer took over 4 months.
- To consolidate our financial banking into one branch located in the city centre.

### **D.2 Future Plans**

As part of the ongoing succession plans with the committee for IEEE NSW, we have had three NSW participants attend the triennial IEEE Sections Congress (SC'08), where representatives from all 328 Sections in the world meet and share ideas, visions, experiences and establish contacts. The challenge facing the IEEE is maintaining its relevance, its values and initiatives in the face of changing social behaviors. The SC'08 communicated means of engaging the media, with technology news, awards and recognition and raising the profile of important individuals. There is no Nobel Prize for technologists, and the IEEE is working to establish the IEEE Medal of Honour as the highest global technology award.

The SC'08 also gave attendees a first hand look at the personal stories behind 8 of the past IEEE presidents, as well as allowing us to meet some of the characters within the IEEE. It is apparent that most IEEE Sections face similar issues, as well stimulating lateral ideas to adapt what IEEE offers members.



**"Jose' M F Moura"**  
**<moura@ece.cmu.edu>**  
02/10/2008 07:22

To j.hale@ieee.org  
cc brian.ferguson@dsto.defence.gov.au, blee@snu.ac.kr,  
c.swaim@comsoc.org, j.howell@comsoc.org,  
pierre@computer.org, Shrigoyal@earthlink.net,  
bcc  
Subject Re: Approval Request to Add the Oceanic Engineering  
Society to theNew South Wales Section Signal  
Processing and Communications Joint  
SocietiesChapter.

Joe  
You have the Signal Processing Society's approval.  
Jose'

[j.hale@ieee.org](mailto:j.hale@ieee.org) wrote:

Dear Director Janina Mazierska, President Jose Moura, President James Barbera, and  
Vice-President Byeong Gi Lee:

I received a request from Brian Ferguson to change the New South Wales Section Signal  
Processing and Communications Joint Societies Chapter to New South Wales Section  
Signal Processing, Communications, and Oceanic Engineering Joint Societies Chapter. This  
request is approved by the Executive Committee of the Section.

If you have questions or concerns, you may contact Brian Ferguson at  
[brian.ferguson@dsto.defence.gov.au](mailto:brian.ferguson@dsto.defence.gov.au).

Do I have your approval?

Best regards,

Joe Hale

---

Joseph E. Hale III  
Administrator - Geographic Unit Support  
IEEE Member and Geographic Activities Department  
445 Hoes Ln  
Piscataway NJ 08854  
USA

Tel: +1 732 562 5511  
Fax: +1 732 463 3657  
Email: [j.hale@ieee.org](mailto:j.hale@ieee.org)

IEEE. Fostering technological innovation and  
excellence for the benefit of humanity.

---

**2008 Lecture Program of the Joint Electrical Institutions Sydney –  
Engineers Australia, IEEE, IET with Telecommunications Society of Australia**



The Meeting Place for  
Telecommunications Professionals



The Knowledge Network



# Introduction to Biocontainment - Physical Containment

**Ryszard Knopf**  
**Managing Director**  
**Scientific Interiors (Aust) Pty Ltd**

**DATE/TIME:** **Thursday, 10 April 2008; 5:30 for 6:00pm. Start**  
**VENUE:** Engineers Australia Auditorium,  
Ground Floor, 8 Thomas Street, Chatswood.

The merging technologies of electronics and biological applications has been growing in recent years. The two disciplines in the past have had very little in common, and many practitioners, even academics do not fully appreciate the rules as they apply today.

Engineering applications like Pacemakers, Cochlear implants, silicon retinas, laboratories and medical instrumentation all have intimate contact with biological substances. Working with these substances and devices requires a detailed awareness of risks, specific processes, certifications and a physical containment facility to prevent the spread of disease, virus and pathogens.

Ryszard will review the complex rules and certifications around setting up a biohazard containment laboratory, and highlight some statutory rules that conflict with each other. A review of **AQIS**, Office of Gene Technology (OGTR), Building Code of Australia (BCA) and Standards Australia will be shown.

#### About the Presenter

Ryszard Knopf is the managing director of a specialist architectural firm call Scientific Interiors based in Sydney. Ryszard participates in many of the standards setting committees, and is one of **only eight third party assessors approved by AQIS to assess facilities on behalf of AQIS in Australia**. Ryszard is a registered architect, and works closely with services engineers in the **design**, specification, construction and **certification** of biohazard containment facilities throughout Australia.

Ryszard holds an Architectural Degree from the University of New South Wales and a Masters Degree in the Built Environment from the University of Technology, NSW. Ryszard's experience within the architectural profession is extensive with projects ranging from awarding winning conservation projects, noted refurbishment's project, new designs for city blocks through to project management of entire hospital fitouts and laboratory facilities for many of the world's leading pharmaceutical companies in Australia.

Ryszard will do his best to answer your questions, noting some restrictions may apply due to privacy / rules arising from varying non-disclosure agreements.

**NOTE:** Attendance may be credited towards Engineers Australia's Continuing Professional Development (CPD) points. Engineers Australia members are required to undertake a minimum of 150 hours CPD every three (3) years & are responsible for recording CPD for audit.

**For further information please contact David Burger –  
[k3hz@ieee.org](mailto:k3hz@ieee.org) or Phone 0414 328877**



## **Efficient AC/DC Switching Power Supply Design**

**Dylan D. C. Lu, PhD  
Lecturer**

**School of Electrical and Information Engineering  
The University of Sydney**

**Date/Time:** Thursday, 25 September 2008; 5:30 for 6:00pm. Start  
**Venue:** Engineers Australia Auditorium,  
Ground Floor, 8 Thomas Street, Chatswood.

### **Summary:**

With the advancement of semiconductor packaging, increased usage of new electronics devices and electrical energy systems, and more stringent regulations imposed on switching power supply design, power supply designers face new challenges in search for a cost-effective solution for a particular design while complying standards and fulfilling customers' specifications. This seminar will focus on single-phase AC/DC switching power supply design for low power applications such as AC adaptors for LCD monitors and PC/laptop computers.

Existing design of AC/DC converters adopts a so-called two-stage approach, i.e., cascades a power factor correction (PFC) circuit with a DC/DC post-regulator. The PFC circuit is used to meet the input power quality standard while the DC/DC regulator is used to regulate the output in response to dynamics. The input AC power is first processed by the PFC stage and then by the DC/DC stage. The overall conversion efficiency is therefore limited to the product of individual stage's efficiency. By reconfigure the power converter circuit, it is possible to bypass some of the input power to the DC/DC stage directly without being processed by the PFC stage. Several new AC/DC power converters, which comply with the IEC 6-1000-3-2 standard, improved efficiency and fast output regulation, have been developed and tested in the laboratory. The operation principle, design considerations and experimental results of the new power converters will be given.

### **About the Presenter:**

Dylan Dah-Chuan Lu received his Ph.D. degrees in Electronic and Information Engineering from The Hong Kong Polytechnic University, Hong Kong, in 2004. In 2003, he joined the Power<sup>e</sup>Lab Limited, a spin-off company at The University of Hong Kong, as a Senior Engineer. His major responsibilities include project development and management, circuit design, and contribution of research in the area of power electronics. From 2006, he becomes a Lecturer in the School of Electrical and Information Engineering, The University of Sydney, Australia. He has published over 30 conference and journal papers on the analysis and design of power electronics circuits. He holds one U.S. patent. His research interests include modeling, synthesis and computer-aided design of power converters, dc-dc converter for VRM application, electronic ballast, controls, power-factor-correction circuits, soft-switching techniques and renewable electrical energy systems. He is a member of IEEE and Engineers Australia.

**NOTE:** Attendance may be credited towards Engineers Australia's Continuing Professional Development (CPD) points. Engineers Australia members are required to undertake a minimum of 150 hours CPD every three (3) years & are responsible for recording CPD for audit.

**For further information please contact David Burger – [k3hz@ieee.org](mailto:k3hz@ieee.org) or Phone 0414 328877**

**2008 Lecture Program of the Joint Electrical Institutions Sydney –  
Engineers Australia, IEEE, IET with Telecommunications Society of Australia**



The Meeting Place for  
Telecommunications Professionals



The Knowledge Network



**ENGINEERS  
AUSTRALIA**  
SYDNEY DIVISION



**IEEE**

# Introduction to Biocontainment - Physical Containment

**Ryszard Knopf  
Managing Director  
Scientific Interiors Pty Limited**

**DATE/TIME:** Thursday, 10 April 2008; 5:30 for 6:00pm. Start  
**VENUE:** Engineers Australia Auditorium,  
Ground Floor, 8 Thomas Street, Chatswood.

The merging technologies of electronics and biological applications has been growing in recent years. The two disciplines in the past have had very little in common, and many practitioners, even academics do not fully appreciate the rules as they apply today.

Engineering applications like Pacemakers, Cochlear implants, silicon retinas, laboratories and medical instrumentation all have intimate contact with biological substances. Working with these substances and devices requires a detailed awareness of risks, specific processes, certifications and a physical containment facility to prevent the spread of disease, virus and pathogens.

Ryszard will review the complex rules and certifications around setting up a biohazard containment laboratory, and highlight some statutory rules that conflict with each other. A review of AQUIS, Office of Gene Technology (OGTR), Building Code of Australia (BCA) and Standards Australia will be shown.

#### About the Presenter

Ryszard Knopf is the managing director of a specialist architectural firm call Scientific Interiors based in Sydney. Ryszard participates in many of the standards setting committees, and is one of a handful of biohazard containment certifiers in Australia. Ryszard is a registered architect No. 5677, and works closely with services engineers in the specification and construction of biohazard containment facilities throughout Australia.

Ryszard will do his best to answer your questions, noting some restrictions may apply due to privacy / secrecy rules arising from defence and medical industries.

**NOTE:** Attendance may be credited towards Engineers Australia's Continuing Professional Development (CPD) points. Engineers Australia members are required to undertake a minimum of 150 hours CPD every three (3) years & are responsible for recording CPD for audit.

**For further information please contact David Burger –  
[k3hz@ieee.org](mailto:k3hz@ieee.org) or Phone 0414 328877**