

**IEEE New South Wales Section
211th Executive Committee Meeting**

Monday 5th February 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

1. Attendance

David Burger
Rob Curtis
Antony Zaglas
Jim Vasseleu
Ramutis Zakarevicius
John Robinson
Eddie Fong
Graeme Gwilliam

Karu Esselle
Sam Reisenfeld
Faz Rahman
Walter Lachs
Bruce Poon
Ms Kim Chin
Mark Gordon
Ananda Sanagavarapu

Guest

Ron Stillman

Apologies

David Tien
Graham Town
Danny Soetanto
Ms Caroline McGregor

2. Agenda

There were no objections to the agenda.

3. Minutes of Meeting

- 3.1. Graeme Gwilliam offered to follow up missing minutes with David Tien. David Tien following up.
- 3.2. November 2006 minutes should be available for March meeting.

4. Correspondence

- 4.1. Antony Zaglas to include any 2007 correspondence in minutes(Addendum)
- 4.2. University of Wollongong requested IEEE NSW sponsorship for the ISC2007 conference. The decision will be ratified at the March meeting(NOTE: there is IEEE Technical Sponsorship and Financial Sponsorship)
- 4.3. Sam Reisenfeld had an enquiry from Sydney Convention and Exhibition Services regarding the possibility of a conference of about 1500(similar to Globecom). They were also looking for events down to 150. Sam to forward enquiry to David Burger with a copy to Antony Zaglas.
- 4.4. Sam Reisenfeld enquired regarding the limit of Chair duration for Comms and Signal Processing. Jim Vasseleu stated there was a limit of two years for section chair but need to check re chapter chairs(Antony Zaglas subsequent to meeting advised two year limit as per RAB manual). As no other candidates are available Sam Reisenfeld may continue until a replacement is found.
- 4.5. Sam Reisenfeld stated that he was going on sabbatical leave from Mid June to end of December 2007.

5. Treasurers Report

- 5.1. Rob Curtis met with Ian Boyd so as to effect a transition of the treasurers books. Whereas Ian uses Quick Books Rob proposes to use Excel.

IEEE New South Wales Section 211th Executive Committee Meeting

Monday 5th February 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

- 5.2. Chart of accounts are mandatory(IEEE)
 - 5.3. Last years accounts are being finalised by Ian Boyd. Ian Boyd made a limited issue of the 2006 final accounts. Copies are held by Rob Curtis and Graeme Gwilliam. Final accounts to be tabled at March meeting.
 - 5.4. Deadline for disclosure 31st January 2007 ;
 - 5.5. Bank Account transfers to new section officers(David Burger, Rob Curtis and Antony Zaglas – Signature update forms were signed during meeting).
 - 5.6. Commonwealth Bank account is at Lane Cove branch.
 - 5.7. Commonwealth Bank cash management account(details to be obtained from Rob Curtis).
 - 5.8. Rob Curtis to look at alternatives to cash management account. Graeme Gwilliam offered to assist.
 - 5.9. Internet banking access for viewing account transactions is an advantage.
 - 5.10. Graeme Gwilliam to sign outstanding cheques during tonight's meeting.
 - 5.11. Balance sheet and Income and expenditure tabled by Rob Curtis, with information from Ian Boyd [attached].
 - 5.12. Two outstanding DLP bills. Sam Reisenfeld to email Rob Curtis the two claims with completed forms.
 - 5.13. David Burger to email expenditure template to all officers.
 - 5.14. Graeme Gwilliam summarised that there was a \$415.42 loss for the year. \$2500 expenditure for Filita Barkers attendance of the GOLD congress needs to be resolved. Graeme Gwilliam to sort out R10 refund and Rob Curtis to sort out the rest with Filita.
 - 5.15. Balance sheet about +\$160K.
 - 5.16. David Tien to submit Section meeting reports by 22nd February 2007. David Burger indicated that if reports were not submitted in time he was willing to submit the reports.
 - 5.17. Ian Boyd to submit L50 report prior to 23rd February 2007. Graeme Gwilliam to follow up with David Tien and Ian Boyd.
6. Circuit Editor Report
- 6.1. Eddie Fong stated he would like articles from all Chapter chairs to include a new years message and reach him by 15 February.
7. Chairs Forum
- 7.1. Officer Confirmation:
 - Eddie Fong is to continue as Circuit Editor.
 - Walter Lachs is to continue with Fellow Search.
 - Bruce Poon is to continue as Membership Development Officer.
 - Professional Activities Graeme Gwilliam.
 - Educational Activities Ms Kim Chin.
 - Student Activities Mark Gordon / Filita Barker (Filita Barker subsequent to the meeting advised her unavailability).
 - Jim Vasseleu to continue with Awards and Recognitions.
 - Nominations - Graeme Gwilliam Chair, Jim Vasseleu and Bruce Poon to assist.
 - Zak Zakarevicius to continue as Historian, David Burger assisting.

IEEE New South Wales Section 211th Executive Committee Meeting

Monday 5th February 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

- Rob Menegon to continue as Webmaster until end of April (Advertising in Circuit and follow up by David Burger with those that have expressed interest). Resolution required at March'07 meeting.
 - Intersociety representative to be decided next meeting after clarification/confirmation of Joint Institutions position.
- 7.2. There are student chapters registered at all universities. There is no student representative at The University of Sydney.

8. Committee Reports

8.1. Fellow Search

- Ron Stillman's nomination for Fellow grade has stalled due to the death of his proposer.
- John Robinson and Walter Lachs to follow up.

8.2. Membership Development

- Bruce Poon to continue with Membership Development
- Graeme Gwilliam informed the meeting regarding possible amendments to the procedures covering Senior Membership application support from members within the discipline.

8.3. Professional Activities

- Graeme Gwilliam appointed to this role.

8.4. Educational Activities

- Ms Kim Chin appointed. Graeme Gwilliam suggested looking at the IEEE "Try Engineering" CD. Mark Gordon suggested AAEE by IE Aust. Sam Reisenfeld stated due to the shortage of Engineers there may be Federal Grants available for promoting Engineering in schools. Mark Gordon states that there were low enrolments in Electrical Engineering courses.

8.5. Student Activities

- Kim Chin, Mark Gordon / Filita Barker (Filita subsequent to meeting advised her unavailability)

8.6. Jim Vasseleu to continue with Awards and Recognition

8.7. Nominations

- Graeme Gwilliam chair, Jim Vasseleu and Bruce Poon assisting.

8.8. Historian

- Ramutis Zakarevicius Confirmed as Historian

8.9. Webmaster

- Rob Menegon resigning at end of April and new Webmaster is to be appointed.

9. Affinity Groups

9.1. GOLD Affinity Group

- Mark Gordon, Filita Barker, Rob Curtis and Ms Kim Chin all fall into the GOLD affinity group. Defer GOLD representative until the March'07 meeting
- David Burger to contact Filita Barker and request a report regarding her attendance at the Beijing GOLD Congress in 2006. Written financial statement for Student / GOLD to Beijing also required.
- Need to organise two social events in 2007 with speakers.

9.2. Life Member Activities

IEEE New South Wales Section 211th Executive Committee Meeting

Monday 5th February 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

- John Robinson to take over Life Member Activities from Jim Vasseleu. Need two events/reports programmed for 2007.

9.3. Women In Engineering(WIE)

- Need complete a proposal for a WiE affinity group startup. David Burger and Ms Kim Chin to cooperate on the proposal. Open dialogue with the WIE groups at UTS and at USYD.

10. Chapter Reports(reports for March meeting)

- 10.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter- P Ananda Sanagavarapu chair.
- 10.2. **Electron Devices/Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter- Graham Town chair.
- 10.3. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair
- 10.4. **Computer** chapter- Chair is yet to be confirmed.
- 10.5. **Engineering in Medicine and Biology Society**- Carolyn McGregor chair.
- 10.6. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter- Danny Soetanto chair.
- 10.7. **Power Engineering Society** chapter- Antony Zaglas chair.
- 10.8. **OCeans Engineering** chapter only 9 NSW members. Need 12 for formation. A joint Chapter with North Queensland is being investigated (by ?).

11. Meetings and Conferences

- 11.1. David Burger is planning attending the Region 10 Conference in Malaysia at the end of March'07.
- 11.2. Wireless 2007 to be held in Sydney during August 2007. Sam Reisenfeld is coming back from sabbatical leave for the conference. Money for 2006 conference has not been forwarded to the section. Funding of \$10,000 has been requested for the 2007 Conference(also refer post meeting email by Sam Reisenfeld), and the 2006 profits will come back to the Section. General support by the committee. Resolution at March Section meeting.
- 11.3. R10 Transmission & Distribution 2009 conference may still be available. Korea and Japan have expressed interest;
- 11.4. Spacial Systems (CRCSI 2007);
- 11.5. Ananda Sanagavarapu advised there was a DLP from Japan giving a lecture on 12 February 2007. Ananda to email David Burger / A Zaglas with details;
- 11.6. Oceans Conference May 2010. No money involved (Details pending an MOU);
- 11.7. ISCT Conference October 17-19 2007;
- 11.8. 2010 Asia Pacific Micro Conference proposed to be in Australia.

12. Next Meeting

- 12.1. Next Meeting will be at North Sydney Institute of TAFE St Leonards, at 7:00pm on the 5th of March 2007.

13. Meeting Closed

- 13.1. Meeting closed: 9:00pm.

IEEE New South Wales Section 212th Executive Committee Meeting

Monday 5th March 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

1. Attendance

David Burger
Antony Zaglas
Jim Vasseleu
David Tien
Mark Gordon

Walter Lachs
Ms Kim Chin
Bruce Poon
Graeme Gwilliam
Ramutis Zakarevicius

Guests

Apologies

Karu Esselle
John Robinson
Ron Stillman
Sam Reisenfeld
Ananda Sanagavarapu
Graham Town
Danny Soetanto
Carolyn McGregor
Rob Curtis

2. Agenda

There were no objections to the agenda

3. Minutes of Meetings

3.1. 5th February 2007 minutes

- Graeme William requested item 5.16 be deleted and labelled vacant
- Minor corrections to items 4.2, 10.8, 11.2, 11.8
- Jim Vasseleu moved that minutes be accepted subject to above corrections and Walter Lachs seconded the motion. The motion was passed.

3.2. David Tien advised that the minutes of the November 2006 meeting are in progress and will be provided shortly

4. Correspondence

- 4.1. David Burger has submitted a short Powerpoint presentation supporting NSW Section application to host the Region 10 Conference 2008 and is awaiting response. Walter Lachs moved we proceed and Jim Vasseleu seconded. The motion was passed.
- 4.2. University of Wollongong previously requested IEEE NSW technical sponsorship for the ISCIT2007 conference. It was decided to support the conference.

5. Treasurers Report

- 5.1. No financial report this month
- 5.2. Rob Curtis recommended we change from the Commonwealth Bank. Jim Vasseleu moved that account be changed to NAB George St and Walter Lachs seconded.
- 5.3. UTS to submit money for 2006 wireless conference. Cheque to IEEE NSW and NSW Section to issue cheque for August 2007 wireless conference financial support.

6. Circuit Editor Report

- 6.1. Circuit sent out on 2nd March 2007.

7. Chairs Forum

Rev: 0(Draft)

25 March 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section 212th Executive Committee Meeting

Monday 5th March 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

- 7.1. Philip Ogunbona has expressed his willingness to stay on the committee. Additional committee members to include Karu Esselle and Lakshmi Narasimhan.

8. Committee Reports

8.1. Fellow Search

- Walter Lachs advised that Dr Ron Stillman does not want to proceed with his fellow nomination.
- 1st March deadline for Danny Soetanto Fellow nomination. There is a minimum of five supporters required with room for eight.

8.2. Membership Development

- Bruce Poon tabled membership statistics
- Bruce to be contact for Senior Member applications
- Jim Vasseleu pointed out that there were five students at Charles Sturt and 10 at UWS. Need twelve. He suggested we target above universities for free membership. David Tien at CSU and Carolyn at UWS with a quota of twenty free memberships each.
- It was proposed that free membership be offered to 3rd and 4th year students.

8.3. Professional Activities

- Dr Graeme Gwilliam indicated that there will be a display in Martin Place for Engineering week (Last Friday in June). Proposed Sam Reisenfeld's Satellite System

8.4. Educational Activities

- Two IEEE presentations on the web "Try Engineering".
- Region 10 CD funding received from IEEE a few years ago but not spent for WIE and promotional CD on engineering.
- Walter Lachs provided a two page note with suggestions for a chapter on the CD.
- David Burger to send Kim some engineering information

8.5. Student Activities

- Walter Lachs pointed out that if you go from student member to member there was a significant discount for the first year.
- Jim Vasseleu moved that we extend 200 free student memberships to 3rd, 4th and post graduate students and Walter Lachs seconded. The motion was passed.
- Bruce Poon to set up Mark Gordon with IEEE to contact students
- Students need to contact/register their student chair with the US
- Mark to check with Stephanie Boyd re setup
- David Burger to check re promotional codes

8.6. Awards and Recognition

- Nothing to report

8.7. Nominations

- March 2007 Circuit (item 2.5) calls for nominations for elected officers by end of April.

8.8. Historian

- John Robinson profile update.

8.9. Webmaster

- Rob Menegon resigning at end of April and new Webmaster position advertised in March 2007 Circuit. There is some material queued for uploading.

9. Affinity Groups

9.1. GOLD Affinity Group

- Two events planned. Two speakers have agreed to speak one on patents and the other on Automotive Management Systems

IEEE New South Wales Section 212th Executive Committee Meeting

Monday 5th March 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

- Mark Gordon and David Burger to arrange
- 9.2. Life Member Activities
 - Three new life members Michael Kassler, Roger F Evans and Albert F Sorrell.
 - John Robinson to send invitations to the new life members and their partners to attend the AGM as guests of the Section
- 9.3. Women In Engineering(WiE)
 - David Burger has obtained form required to set up chapter. He will follow up with Kim Chin. University of Sydney rep and Sam Reisenfeld at UTS will assist.
 - WIE Melbourne meeting details to be posted on web.
- 10. Chapter Reports(reports for March meeting)
 - 10.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter- P Ananda Sanagavarapu chair
One lecture has been held
 - 10.2. **Electron Devices/Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter- AP Graham Town chair
Two lectures have been scheduled in the Joint lecture Program
 - 10.3. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair
One lecture has been given by David Burger and another scheduled. Two conferences organised, Auswireless in August and Wireless Sensor Networks Conference in December.
 - 10.4. Computer chapter- Chair to be found
 - 10.5. **Engineering in Medicine and Biology Society**- Dr Carolyn McGregor chair
Dr Carolyn McGregor provided a written report which was tabled by David Burger
 - 10.6. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter- P Danny Soetanto chair
No report provided. There was a lecture at UNSW by Bruce McClung on Safety Engineering
 - 10.7. **Power Engineering Society** chapter- Antony Zaglas chair
One lecture by Dr Ron Stillman on "Power Blackouts and Liability for Economic Loss or Injury" in September 2007 has been scheduled and another on Substation Battery Systems by Chloride is to be confirmed.
- 11. Meetings and Conferences
 - 11.1. Auswireless 2007 to be held in Sydney August 2007. Sam Reisenfeld is coming back from sabbatical leave for the conference. Money for 2006 conference has not been forwarded to the section. Funding of \$10,000 has been agreed for 2007 Conference. Money to section from 2006 conference to be sent to Rob Curtis.
 - 11.2. Oceans Conference May 2010. Graeme Gwilliam and John Robinson attended OCE meeting. There was no resolution on plan of action however a formal application to the NSW Section to form a new chapter will be considered. NSW Section will consider endorsing the application.
 - 11.3. ISCIT Conference October 17-19 2007[IEEE Technical Sponsorship]
 - 11.4. Deleted
 - 11.5. Budget/Expenses for attendance of Region 10 Meeting
 - 11.6. Spatial Systems 2007 moved to 2008
 - 11.7. Region 10 2008 Student/GOLD/WIE Congress. Next year contingent on getting WIE started.
 - 11.8. Seminar on high performance computing at Macquarie University on 12 March 2007.
 - 11.9. ICITA 2007 has been moved to 2008. David Tien to provide details
 - 11.10. Mark Gordon to advise details on 1-3 October 2007 multiple conference on Systems and Control

IEEE New South Wales Section
212th Executive Committee Meeting

Monday 5th March 2007 at 7pm

Northern Sydney Institute of TAFE, Gore Hill Campus, College Library Seminar Room 1

- 11.11. Wireless Sensor Networks Conference in December. Sam Reisenfeld to provide details.

12. Other Business

- 12.1. Region 10 2008 Conference-Hosting proposal to be supported.

13. Next Meeting

- 13.1. Next Meeting will be at North Sydney Institute of TAFE St Leonards, at 7:00pm on the 2nd of April 2007.

14. Meeting Closed

- 14.1. Meeting closed 8:55pm

**IEEE New South Wales Section
213th Executive Committee Meeting**

Monday 2nd April 2007 at 7pm

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

1. Attendance

David Burger-Chair
Antony Zaglas
Jim Vasseleu
David Tien
Mark Gordon
Rob Curtis

Kim Chin
Bruce Poon
Graeme Gwilliam
John Robinson
Graham Town
Walter Lachs(until 8:10)

Guests

Apologies

Karu Esselle
Ramutis Zakarevicius
Eddie Fong
Ron Stillman
Sam Reisenfeld
Ananda Sanagavarapu
Danny Soetanto
Carolyn McGregor

2. Agenda

There were no objections to the agenda.

3. Minutes of Meetings

3.1. Jim Vasseleu moved that the November 2006 minutes be accepted and John Robinson Seconded. There were no objections.

3.2. 5th March 2007 minutes

- Item 8.4 - Walter Lachs advised that the document given to Kim Chin was eight pages not two
- item 8.7 - add "for 2008 election of officers"
- item 9.2 – should be three new Life Members and two new Life Senior Members, and names to be added as per March Circuit.
- Jim Vasseleu moved that minutes be accepted subject to above corrections and Walter Lachs seconded the motion. The motion was passed.

4. Correspondence

- 4.1. Karu Esselle accepted the NSW Judging role for the national Student Branch award program.
- 4.2. Graham Town indicated that he would like to know what happened to the article he submitted for the March edition of Circuit. David Burger advised that the content was uploaded to the web page
- 4.3. David Burger Tabled his report on the attendance of the IEEE Region 10 Conference 2007.
- 4.4. Carolyn McGregor in her report asked regarding free student membership for societies.
- 4.5. Jim Vasseleu moved a motion regarding contact with Ian Boyd by section committee members be restricted to the Section Treasurer and Past Section Chair. The motion was passed but was subsequently rescinded after much discussion.

IEEE New South Wales Section 213th Executive Committee Meeting

Monday 2nd April 2007 at 7pm

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

5. Treasurers Report

- 5.1. There was no written report this month. There were a lot of problems with changing the banking arrangements. There was a problem with adding Antony Zaglas signature to the account signatories list.
- 5.2. Rob Curtis recommended that the bank accounts, and especially the cheque account, be moved to the city head branch of the Commonwealth Bank. Walter Lachs seconded the motion and it was passed without dissent.
- 5.3. There was some discussion about the IEEE offer regarding concentration banking. One suggestion was to deposit our rebate cheque in to this account. John Robinson, Graeme Gwilliam and David Tien believed it was too complicated, it may breach Australian law and it may not be able to handle GST and BAS Statements. Rob Curtis to check re latter.
- 5.4. Rob Curtis recommended 2006 budget be used for 2007. There was discussion about items being included in 2007 one being the 35th Anniversary Dinner to be held at the Kirribilli Yacht Squadron as per the 30th anniversary. Jim Vasseleu in conjunction with John Robinson and David Burger to provide budget for next meeting. Jim Vasseleu proposed that the five new Life Members be invited for free to this event rather than the AGM. Rob Curtis moved the proposal be accepted and David Tien seconded the motion. There were no objections.
- 5.5. The \$120,000 in the Commonwealth management account is actually held by Colonial Mutual. According to John Robinson this can be accessed via the Internet. Rob Curtis to check with John Robinson regarding details. These funds to be transferred to an Interest Bearing Account tied to the cheque account. It can be set up so that you can not transfer out without signatures but can transfer funds to the cheque account. A card may be set up for the IEEE NSW Section. Rob Curtis Moved and Jim Vasseleu seconded the motion. The motion was passed.

6. Circuit Editor Report

- 6.1. Eddie Fong advised that he required input for July 2007 Circuit by the end of May 2007.

7. Chairs Forum

- 7.1. No discussion
- 7.2. No discussion
- 7.3. David Burger proposed, and was investigating, holding one of the Section Meetings in Parramatta(UWS) this year. Details to be advised.

8. Committee Reports

- 8.1. Fellow Search
 - Nothing to report
- 8.2. Membership Development
 - Bruce Poon tabled membership statistics
 - Carolyn McGregor asked regarding dissection of Women in Engineering in Membership statistics. Bruce Poon to check and incorporate appropriate item in next membership report.
- 8.3. Professional Activities
 - Graeme Gwilliam attended a meeting with Engineers Australia regarding Engineering Week. A number of activities are planed and they are looking for small items for display(eg small aircraft engines)
 - Sam Reisenfeld's satellite is at the Powerhouse Museum, however Engineers Australia can not get any response out of the Museum regarding its loan.
- 8.4. Educational Activities

Rev: 0(Draft)

9 April 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section 213th Executive Committee Meeting

Monday 2nd April 2007 at 7pm

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

- Kim Chin is working on promotional CD. There is funding available that has not been spent. Has already given one talk to a girls school. David Burger offered to provide assistance with information. There may also be some information on the Educational Activities Board(EAB) web page.
- 8.5. Student Activities
 - David Burger advised that R10 website has some information on Student Branches. Also the rebate document lists the Student Branches.
 - It was suggested that retention rate for free student memberships be monitored
 - David Burger to check re promotional codes
- 8.6. Awards and Recognition
 - Jim Vasseleu pointed to two items in SCOOP regarding awards. He recommended we nominate Northern Sydney Institute of TAFE North Sydney College as a Friend of IEEE and organise a plaque to be presented. Graeme Gwilliam seconded with all in favour.
- 8.7. Nominations
 - Call for Nominations in March Circuit. Waiting for closure date at the end of the month.
- 8.8. Historian
 - No Report
- 8.9. Webmaster
 - There is no replacement for Rob Menegon as yet.
 - Mark Gordon advised that info on web page regarding Free Student memberships was out of date(the sponsored membership link links to the March 2004 Circuit article which is out of date and also has an old address for the Professional Centre).
- 9. Affinity Groups
 - 9.1. GOLD Affinity Group
 - One event on Patents(possibly at Sydney Uni Darlington Centre) has been organised
 - A second event is in the early stages, probably on motor racing and engineering
 - 9.2. Life Member Activities
 - Engineers Australia is offering free membership to those who have kept up their membership for forty years.
 - There was an offer in IEEE Membership News for a free Life Members badge if a donation of \$50 was made to the Life Members Fund.
 - Jim Vasseleu advised that there was a 35th Anniversary dinner planned for 16th August 2007(date to be confirmed) and it will be one of the two Life member functions. John Robinson to co-ordinate with David Burger and advise details. Proposed to use Kirribilli Yacht Club. Also to check if Friday 17th August was a better/possible alternative.
 - Bruce Poon to check with headquarters regarding possibility of a Banner for the 35th anniversary
 - 9.3. Women In Engineering(WIE)
 - Proposed event for July 2007. David Burger to include in Event Calendar on Web
 - Bruce Poon to provide Kim Chin with emails of female members.
 - Need support(minimum 5 emails) to petition for NSW WIE setup
 - Kim Chin attended WIE Melbourne meeting.

IEEE New South Wales Section 213th Executive Committee Meeting

Monday 2nd April 2007 at 7pm

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

10. Chapter Reports(reports for March meeting)

- 10.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter- P Ananda Sanagavarapu chair
One lecture tonight at CSIRO
- 10.2. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter- AP Graham Town chair
Two lectures have been scheduled in the Joint lecture Program. Information by Graham Town for March Circuit to be posted on Web page.
- 10.3. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair
No report. Need details on Wireless Sensor Networks Conference in December.
- 10.4. **Computer** chapter- Chair to be found. Web page is out of date
- 10.5. **Engineering in Medicine and Biology Society**- Dr Carolyn McGregor chair
Dr Carolyn McGregor provided a written report which was tabled by David Burger
- 10.6. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter- P Danny Soetanto chair
No report provided.
- 10.7. **Power Engineering Society** chapter- Antony Zaglas chair
Lecture on Substation Battery Systems by Chloride is to be followed up by Antony Zaglas. Participation in the R10 PES Chairs meet in Beijing in October 2007 to be confirmed. Expected NSW Section contribution as per 2005(US\$200).

11. Meetings and Conferences

- 11.1. Auswireless 2007 to be held in Sydney August 2007. Sam Reisenfeld is coming back from sabbatical leave for the conference. Money for 2006 conference has not been forwarded to the section. Funding of \$10,000 has been agreed for 2007 Conference. Money to section from 2006 conference to be sent to Rob Curtis.
- 11.2. Oceans Conference May 2010. To be discussed next meeting.
- 11.3. ISCIT Conference October 17-19 2007[IEEE Technical Sponsorship]
- 11.4. Spatial Systems 2008
- 11.5. Region 10 2008 Student/GOLD/WIE Congress. Next year contingent on getting WIE started.
- 11.6. Seminar on high performance computing at Macquarie University on 12 March 2007.
- 11.7. ICITA 2007 has been moved to 2008. David Tien to provide details
- 11.8. Mark Gordon to advise details on 1-3 October 2007 multiple conference on Systems and Control
- 11.9. Wireless Sensor Networks Conference in December. Sam Reisenfeld to provide details.

12. Other Business

- 12.1. There has not been any feedback on the Region 10 2008 Conference-Hosting submission.

13. Next Meeting

- 13.1. Next Meeting will be at North Sydney Institute of TAFE St Leonards, at 7:00pm on the 7th May 2007.

14. Meeting Closed

- 14.1. Meeting closed 9:00pm

IEEE New South Wales Section
214th Executive Committee Meeting

Monday 7th May 2007 at 7pm

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

1. Attendance

David Burger-Chair
Antony Zaglas
Jim Vasseleu
David Tien
Mark Gordon

Bruce Poon
Walter Lachs
Karu Esselle
Ramutis Zakarevicius

Guests

Apologies

Rob Curtis
Graeme Gwilliam
John Robinson
Graham Town
Eddie Fong
Sam Reisenfeld
Ananda Sanagavarapu
Danny Soetanto
Carolyn McGregor
Kim Chin

2. Agenda

Moved Walter Lachs
Seconded Karu Esselle
Motion was passed

3. Minutes of 2nd April 2007 Meeting

- Carolyn McGregor's April report to be inserted into minutes
 - Item 8.5 – the Region 10 Directory lists the last known Student Branches
 - item 12.1 – IEEE NSW did not make the short list for R10 2008.
- Moved Antony Zaglas
Seconded David Tien
Motion was passed

4. Correspondence

4.1. There was some Fellows Correspondence regarding Ashok Manglick's nomination

Actions:

- **Walter Lachs to follow up**

4.2. Graeme Gwilliam provided a report on the IEEE GOLD Academic Professional Portal Report to Region 10 Meeting

4.3. At 2pm on 15 May there will be a naming ceremony of "The Vincent Morgan High-Voltage Laboratory" at the National Measurement Institute Lindfield.

5. Treasurers Report

5.1. Rob Curtis forwarded a report for May 2007, *refer to attachment 1*.
David Tien and Tony Zaglas signed forms for the transfer of Bank accounts.
There was a problem with L50 forms as the last statement for 2006 was not in hand.
Five \$1000 student grants(one per chapter) proposal by Rob Curtis was noted and put on hold. There are actually seven chapters. Discussion followed about reactivating the Max Simons award with \$1000 for first place and \$500 for second place.

Rev: 0(Draft)

27 May 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
214th Executive Committee Meeting**

Monday 7th May 2007 at 7pm

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

Actions:

- **David Tien to get Statement from Bank for December 2006 and forward to Rob Curtis.**
- **Graham Town chasing invoices for Leos DL**
- **Tony Zaglas to follow up with PES regarding Awards**
- **Graeme Gwilliam and Jim Vasseleu to follow up regarding \$800 for Felita Barkers' attendance at the 2006 Gold/Student Congress.**

5.2. There was no budget tabled for 2007.

6. Circuit Editor Report

6.1. Eddie Fong advised that he required input for July 2007 Circuit by the end of May 2007. Eddie would like an article for Circuit from each Office Holder/Committee Member.

Actions:

- **Each Office Holder/Committee Member**

7. Chairs Forum

7.1. No discussion on outstanding Officer Positions and Contacts

7.2. No discussion on proposed OCE chapter

7.3. Refer item 9.3

7.4. July Meeting will be Held at the University of Western Sydney. There will be no other out of Sydney meetings in 2007.

Actions:

- **David Burger to check and organise with UWS**

8. Committee Reports

8.1. Fellow Search

Walter Lachs is awaiting information from Danny Soetanto

Actions:

- **Danny Soetanto to provide required information to Walter Lachs**

8.2. Membership Development

- Bruce Poon tabled membership report, *refer to attachment 2.*

- It was agreed that students applying for the free one year membership are to fill and mail in form for Section to lodge and pay membership.

Actions:

- **David Burger to follow up**

8.3. Professional Activities

- Graeme Gwilliam advised - I attended the Engineering Week joint EA/IET/IEEE meeting in April. There are no minutes kept of these meetings, but the overall planning schedule is progressively revised. There are no outstanding commitments on NSW IEEE listed to my knowledge.

- There will be a Sustainable Transport Seminar at Chatswood

- Tony Zaglas to follow up with Graeme Gwilliam regarding reports mentioned in email

Actions:

- **Tony Zaglas to follow up with Graeme Gwilliam regarding reports**

Rev: 0(Draft)

27 May 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
214th Executive Committee Meeting**

Monday 7th May 2007 at 7pm

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

8.4. Educational Activities

- Karu Esselle gave a video cassette(on IT careers from the US) to David Burger for Kim Chin.

Actions:

- **David Burger**

8.5. Student Activities

- Max Simons Prize \$1000 first and \$500 second
- Mark Gordon to co-ordinate with David Tien regarding getting a student chair for Charles Sturt University, Philip Ogunbona for UW, Lakshmi Narasimhan UN, Carolyn McGregor UWS and Ananda S UTS.
- David Burger checking re promotional codes

Actions:

- **Mark Gordon regarding student chairs**
- **David Burger regarding promotional codes and free student membership**

8.6. Awards and Recognition

- Friends of IEEE – Northern Sydney Institute of TAFE North Sydney College. Plaque ready for presentation on Thursday 16 August 2007 at 35th Anniversary Dinner.
- IEEE Milestones award – Bionic Ear Cochlea Implant. Time frame 18 to 20 months. Also check regarding the possibility of Res Med for an award.

Actions:

- **David Burger to follow up regarding plaque for North Sydney TAFE and Milestones Award.**

8.7. Nominations

- Graeme Gwilliam advised - There were no nominations received for Section elected officers for 2008 by the published closing date. This now leaves the Nominations Committee the task of finding two persons willing to stand for each of the elected Section officer positions for 2008. The Nominations Committee have been advised of this situation and will pursue the appropriate action.
- Announcement in June Meeting and July Circuit publication with additional nominations in November Circuit.

Actions:

- **Nominations Committee**

8.8. Historian

- Jim Vasseleu offered to donate a copy of the 1977 Student Paper book.
- The 1984 Centennial IEEE Book was on the Web site
- 1982 photos
- David Burger is gathering material on the History of IEEE in Sri Lanka

Actions:

- **Jim Vasseleu, Zak Zakarevicius, David Burger**

8.9. Webmaster

- Rob Menegon is in the USA. There will be no further major updates to the web site until further notice.
- David Burger is organising for the revamp of the website for easy management. There will be a trial run with the Sri Lanka site.

Rev: 0(Draft)

27 May 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
214th Executive Committee Meeting**

Monday 7th May 2007 at 7pm

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

Actions:

- **David Burger to follow up**

9. Affinity Groups

9.1. GOLD Affinity Group

- Lecture on Biological Containment Labs at Sydney University Darlington Centre with a date to be advised.
- A second event possibly at Macquarie University – say a barbeque with speaker on Patent Copyright, details to be advised.

Actions:

- **David Burger and Mark Gordon to follow up**

9.2. Life Member Activities

- Thursday 16 August will be the 35th Anniversary Dinner and it will be at the Royal Sydney Yacht Squadron Kirribilli. Parking should be available.
Menu \$64 per Person two course, \$77 per person three course and club wine is \$25 a bottle.
Allowing for a minimum of 20 to attend we are looking at \$90 per person.
Proposed charge to members is \$40 with everyone paying including the committee. New Life Members will not be charged. There will be no speaker.
The maximum budget for the event will be \$2500.
Moved Jim Vasseleu
Seconded Karu Esselle
Motion was passed

Actions:

- **John Robinson and Jim Vasseleu to follow up**
- **Information to Eddie Fong to allow Event to be included in July Circuit**

9.3. Women In Engineering(WIE)

- Kim Chin has obtained two signatures for the petition to form WIE. Need a minimum of six signatures from women members interested in joining WIE.

Actions:

- **Kim Chin and David Burger to follow up**

10. Chapter Reports(reports for March meeting)

10.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter- P Ananda Sanagavarapu chair
No report

10.2. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair
No report.

10.3. Computer chapter- Chair to be found.
No Chair. No report.

Actions:

- **David Burger to follow up**

10.4. **Engineering in Medicine and Biology Society-** Dr Carolyn McGregor chair
No Report.

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

Rev: 0(Draft)

27 May 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
214th Executive Committee Meeting**

Monday 7th May 2007 at 7pm

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

The new joint chapter held its first full technical meeting on 12th April.

We were very fortunate to have Emeritus Distinguished Lecturer, Professor Jagadish, travel from ANU to speak on his group's work on nano-structured semiconductor devices and their novel properties. Some interesting discussions followed over dinner at the local RSL.

Upcoming technical meetings:

Dr Ian Clarke (Optium Inc.),

"Case Studies in the Commercialisation of Photonics Technology"

5:30 for 6pm, 14th June, 8 Thomas St Chatswood.

Prof M. Selim Unlu (IEEE Distinguished Lecturer, Boston Univ.) "Applications of Optical Resonance to Biological Sensing and Imaging"

12 noon, 29th June, E7B Mason Theatre Macquarie University, Prof Unlu will also be giving a different presentation at UTS (please contact G. Town for details).

Also, please note the June 11th deadline for submissions to the IEEE Asian Solid-State Circuits Conference (A-SSCC), to be held in Korea, 12th - 14th November, 2007.

10.6. Power Electronics/Industry Applications Society/Industrial Electronics joint chapter- P

Danny Soetanto chair

No report provided.

10.7. Power Engineering Society chapter- Antony Zaglas chair

Lecture by Ron Stillman on 13th September 2007 is listed in event calendar. A proposed one day workshop by Scott Rouse is planned for 14 September 2007. The topic will be Energy Efficiency. Expenses to be partly shared by EESA. Travel Expenses to/from Canada will be paid for by PES. DL local stay would need to be financed by NSW Section. Expenses to be partly offset by submission for the PES High Performing Chapter Award.

Actions:

- ***Tony Zaglas and John Robinson***

11. Meetings and Conferences

11.1. Auswireless 2007

11.2. Oceans Conference 2010

11.3. ISCIT Conference October 17-19 2007

11.4. Expenses for 2007 Region 10 Conference

11.5. Spatial Systems (CRCSI 2008)

11.6. Region 10 2008 Student/GOLD/WIE Congress

11.7. ICITA 2008

11.8. Multiple conference on Systems and Control 1-3 October 2007

11.9. Wireless Sensor Networks Conference in December

12. Other Business

12.1. NSW Section did not make the final list for the 2008 Region 10 Conference.

13. Next Meeting

13.1. Next Meeting will be at North Sydney Institute of TAFE St Leonards, at 7:00pm on the 4th June 2007.

14. Meeting Closed

14.1. Meeting closed 9:00pm.

Rev: 0(Draft)

27 May 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
214th Executive Committee Meeting
Monday 7th May 2007 at 7pm
Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 3

Attachment 1. Treasurer's Report May 2007

Red items are those the committee need to take immediate action on

- 1) As agreed at the last meeting I obtained forms to move the Lane cove account to the CBD. I filled in the requisite form requiring 3 signatories and sent it to David Burger en route to David Tien, and Anthony Zaglass and requested it be returned so that I can finish the job. Please investigate its whereabouts ... get it signed and return it to me.
- 2) We are now in trouble with Piscataway regarding our reporting of last years L50. A full bank statement was not sent to them (only the figures I had been handed which don't seem to keep them happy). The bank will not talk to me as I am not signatory to the trust account. In an attempt to get the figures I requested David Tien (who is a signatory to the Trust account) to get a statement of the account. Apparently he has this but has not as yet forwarded it to me. This is required very urgently.
- 3) Please find enclosed the current financial statement below.
- 4) I did not receive the invoice paperwork for the Professor Jagadish - Leos guest accommodation at the Saville Park Hotel Chatswood ... Graham Town to follow up and forward to me please.
- 5) I propose the IEEE NSW Section consider 5 x \$1000 grants to one Engineering student located each in one of the IEEE section chapter disciplines eg. Power, Signal Processing, Ocean Eng, EMBS, AP/MTT etc perhaps with the student being asked to prepare a 10-15 minute presentation to justify the grant.

**IEEE New South Wales Section
214th Executive Committee Meeting**

Monday 7th May 2007 at 7pm

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

Purchases

2007

[Contents page](#)

{sheet protection pass robac}

AUS
USD
GBP
EUR

\$5,976.99

			Section	Supplier		Curncy				
Purchase #	Date	Supplier	/Chapter	Inv #	Despn		Amt	Tot \$	Pmethod	
1	7/02/2007	Joanne Curry	EMBS		expense	AUS	\$ 46.13	\$ 46.13	chq	472
2	7/02/2007	David Burger	Sect		expense	AUS	\$ 110.60	\$ 110.60	chq	473
3	31/12/2006	Engineers Australia Sydney	Sect	1278 trans 0221323	inv	AUS	\$ 1,500.00	\$ 1,500.00	chq	728
4	5/12/2006	Australian Professional Centre	Sect	2956	inv	AUS	\$ 561.99	\$ 561.99	chq	727
5	24/11/2006	Boronia Grove	sect	303	inv	AUS	\$ 2,308.00	\$ 2,308.00	chq	725
6	31/12/2006	Assoc Prof Graham Town	Sect		expense	AUS	\$ 360.25	\$ 360.25	chq	724
7	31/12/2006	G B Gwilliam	Sect		expense	AUS	\$ 32.55	\$ 32.55	chq	726
8	13/03/2007	Univ Sydney EE foundation	sect		expense	AUS	\$ 110.00	\$ 110.00	chq	476
9	6/04/2007	Saville Park Hotel	Leos		expense	AUS	\$ 215.00	\$ 215.00	chq	481
10	25/01/2007	G B Gwilliam	sect		expense	AUS	\$ 77.00	\$ 77.00	chq	479
11	22/02/2007	G B Gwilliam	Sect		expense	AUS	\$ 73.60	\$ 73.60	chq	480
12	15/03/2007	Sips Express	Ocean		expense	AUS	\$ 133.10	\$ 133.10	chq	477
13	8/03/2007	Australian Professional Centre	Sect		expense	AUS	\$ 448.77	\$ 448.77	chq	478
14										
15										
16										
17										
18										
19										
20										

Rev: 0(Draft)

27 May 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
214th Executive Committee Meeting**

Monday 7th May 2007 at 7pm

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

Income 2007

[Contents page](#)

						tot invoiced	
						\$ -	
Inv #	Date	Co./Last Name	Cust PO	Description	Job	Tot \$ Inc-GST	Tax Code
1	19/02/2007	Univ of Technology Sydney		AusWireless B/Band Conference		\$ 2,839.00	

Current Cheque Account Balance 7th May 2007 \$ 35,180.01

Rev: 0(Draft)

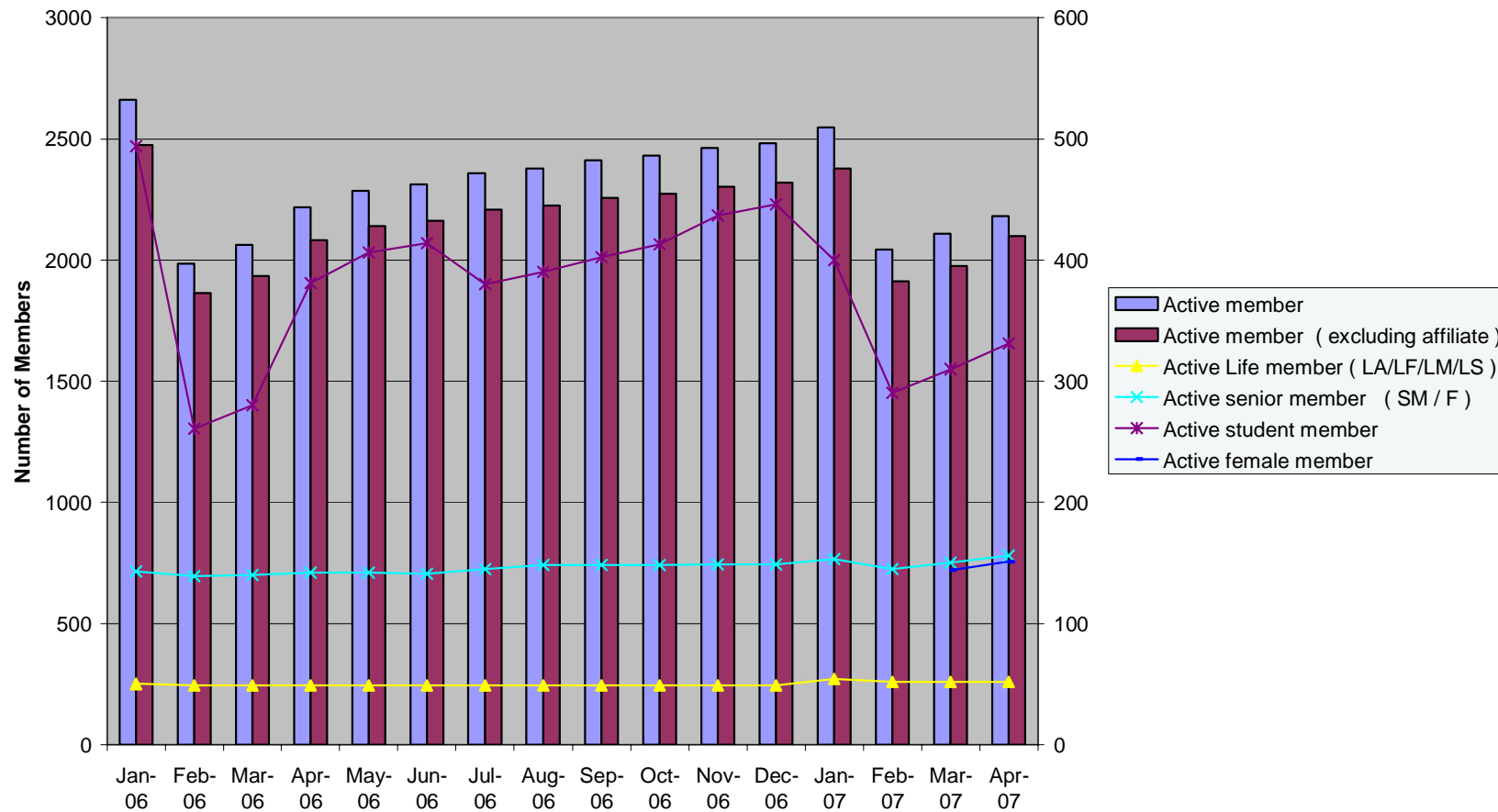
27 May 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
214th Executive Committee Meeting
 Monday 7th May 2007 at 7pm
 Northern Sydney Institute of TAFE, North Sydney College, Library Seminar Room 3

Attachment 2 – Member Statistics Report.

IEEE (NSW) Section Members Chart



Rev: 0(Draft)
 27 May 2007
 Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
215th Executive Committee Meeting

Monday 4th June 2007 at 7pm

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

1. Attendance

David Burger-Chair
Antony Zaglas
Jim Vasseleu
Mark Gordon
Bruce Poon

Vassilios Agelidis
Walter Lachs
Sam Reisenfeld
John Robinson
Ramutis Zakarevicius

Guests

Ron Stillman

Apologies

Karu Esselle
Graeme Gwilliam
David Tien
Graham Town
Eddie Fong
Ananda Sanagavarapu
Danny Soetanto
Carolyn McGregor
Kim Chin

2. Agenda

Jim Vasseleu Moved agenda be accepted
Seconded by Antony Zaglas
Motion was passed.

3. Minutes of May 2007 Meeting

3.1. Corrections

- item 5.1 – Spelling correction - Filita Barker.

There being no other corrections the minutes were taken as read.

3.2. Business Arising

- Jim Vasseleu Moved that Professor Vassilios Agelidis be appointed to the committee and Walter Lachs seconded the motion. All were in favour.

4. Correspondence

4.1. July meeting location not finalised

Actions:

- ***Tony Zaglas to follow up with Carolyn McGregor regarding holding July meeting at UWS***

4.2. 2008 meeting relocation will not be proceeded with

4.3. John Robinson tabled a CD regarding the Oceans 2010 Conference

5. Treasurers Report

5.1. There was no written Treasurer's report.

Actions:

- ***Graham Town still chasing invoices for Leos DL***
- ***Tony Zaglas to follow up with PES regarding Awards***

IEEE New South Wales Section 215th Executive Committee Meeting

Monday 4th June 2007 at 7pm

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

- ***Graeme Gwilliam and Jim Vasseleu were not able to contact Filita Barker regarding \$800 rebate for attendance of Gold/Student Congress in Beijing. Tony Zaglas to follow up.***

5.2. Two new accounts were opened at Martin Place with the Commonwealth Bank. Awaiting the transfer funds from the cash management account. New account offers reasonable interest and can only transfer money to the cheque account, two signatures being required. Internet access is available but again two simultaneous signatures are required.

5.3. David Tien obtained Statement required for L50 Form from Bank for December 2006 and has forwarded to Rob Curtis. Rebates still pending

5.4. Five/Seven \$1000 Student grants deferred.

6. Circuit Editor Report

6.1. David Burger, R Zakarevicius, Jim Vasseleu, Tony Zaglas, John Robinson, Walter Lachs, have submitted articles for Circuit.

Actions:

- ***Each Office Holder/Committee Member to try and provide Eddie with an article***

7. Chairs Forum

7.1. David Burger to provide article for Circuit with a view to finding a Chairman for The Computer Chapter

Actions:

- ***David Burger to Provide article for July Circuit***

7.2. John Robinson advised that OCE Oceans 2010 Conference organisers were anxious about the transfer of the US\$30,000 Conference funds. Need chapter for the transfer to take place. Originally The Australia Council was to handle the matter. It was stated that a lot of the members of OCE were also members of Communications & Signal Processing. Some discussion followed regarding the common interests of the two societies.

@Sam Reisenfeld moved that the three chapters, Communications, Signal Processing and Oceanic Engineering be joined and Jim Vasseleu seconded the motion. The motion was passed without dissent.

Actions:

- ***@John Robinson to contact Brian Ferguson and liaise with David Burger and Mal Herron regarding submission of the required petition.***

7.3. Formation of WIE Affinity Group is Pending

Actions:

- ***Kim Chin and David Burger***

7.4. July Meeting will be Held at the University of Western Sydney.

Actions:

- ***Tony Zaglas to check with Carolyn McGregor and advise David Burger***

IEEE New South Wales Section
215th Executive Committee Meeting

Monday 4th June 2007 at 7pm

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

8. Committee Reports

8.1. Fellow Search

- The information required for Danny Soetanto's Fellow nomination has been received and the application has been submitted. Danny will not know until December if the nomination has been successful.
- Ashok Manglick's nomination for Fellow grade is pending. It needs to be submitted by 31 March 2008

Actions: Ashok Manglik/Walter Lachs

- Ron Stillman advised that he does not wish to proceed with his Fellow nomination
- For Fellow grade a minimum of five sponsors are needed and the nominee must be an active Senior Member at the time of submission. There is a "Fellows Kit".
- http://www.ieee.org/web/membership/fellows/fellow_steps.html

8.2. Membership Development

- Bruce Poon tabled membership report.
- It was agreed that student free memberships be deferred to next year but we must sort out the details ASAP.
- There was an increase of student members at Charles Sturt University to thirteen for May.

Actions:

- **David Burger/Tony Zaglas/Bruce Poon to follow up**

8.3. Professional Activities

- David Burger advised that a teleconference was held with the Joint Lectures Committee. Another lecture has been added in October 2007 and one in March 2008 at the HV Lab at the National Measurements Laboratory Lindfield(not on a Thursday).
- One event that may drop out of the calendar is the Electric Vehicles lecture due to a lack of sponsorship

Actions:

- **Tony Zaglas to follow up with Graeme Gwilliam regarding reports mentioned in earlier email.**
- **David Burger to check and advise regarding standing of Electric Vehicles Lecture**

8.4. Educational Activities

- No report has been provided. Karu Esselle is participating/assisting Kim Chin with educational Activities

Actions:

- **David Burger to hand Video provided by Karu Esselle to Kim Chin**

8.5. Student Activities

- Free Student memberships situation has not been sorted out. To be sorted out by September/October for next year.
- Sydney University Chair information is out of date but there is an active branch

Actions:

- **Mark Gordon regarding Sydney University student chair**

IEEE New South Wales Section 215th Executive Committee Meeting

Monday 4th June 2007 at 7pm

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

- **David Burger/Tony Zaglas regarding promotional codes for free student membership**
- **Max Simons Prize \$1000 first and \$500 second to be initiated**

8.6. Awards and Recognition

- David Burger has ordered Friends of IEEE plaque for award to Northern Sydney Institute of TAFE North Sydney College. Plaque to be ready for presentation on Thursday 16 August 2007 at 35th Anniversary Dinner.
- David Burger has contacted Cochlear regarding milestones award and they are willing to accept the nomination. The draft form has been provided at a workshop and it is being prepared at the moment(18 months gestation). This will be the first award in Region 10 outside Japan.

Actions:

- **David Burger to follow up regarding plaque for North Sydney TAFE and Milestones Award.**

8.7. Nominations

- Jim Vasseleu reported regarding the 2008 Officer nominations in the absence of Graeme Gwilliam. Those present at the meeting all stated they were willing to stand in the same positions. Standing for other positions to be confirmed urgently.
- Jim Vasseleu faxed Eddie Fong list of nominations minus Filita Barker..

Actions:

- **Nominations Committee. Graeme Gwilliam(or Jim Vasseleu/Bruce Poon) to contact existing committee members and other nominees urgently with a view to obtaining acceptance of nomination.**

8.8. Historian

- David Burger has submitted history of Australia Council and IEEE in Sri Lanka. Jim Vasseleu will drop off 1977 student paper book to David Burger.

Actions:

- **Jim Vasseleu**

8.9. Webmaster

- Rob Menegon is in the USA but can still support our web site doing minor updates.
- The new IEEE template is almost finished. It will be similar to that of India Council.
- Jim Vasseleu handed David Burger a copy of Eddie Fong's biography.
- There will be a trial run with the Sri Lanka site being developed currently.

Actions:

- **David Burger to follow up**

9. Affinity Groups

9.1. GOLD Affinity Group

- There has been one function at the University of Sydney Physics building on the 1st of June. There were 20 to 30 in attendance.
- There will be a lunchtime lecture on Biological Containment Labs at Energy Australia in the city on the 11th of October 2007. Lecture is listed in latest Events Calendar.

•

Actions: David Burger and Mark Gordon.

IEEE New South Wales Section 215th Executive Committee Meeting

Monday 4th June 2007 at 7pm

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

9.2. Life Member Activities

- Thursday 16 August will be the 35th Anniversary Dinner and it will be at the Royal Sydney Yacht Squadron Kirribilli. **The Shellcove Room has been booked and the 50/50 menu selected for a 3-course dinner JLR provided details and there were no changes suggested.**

Actions:

- **Eddie Fong to include in July Circuit**
- **JLR to pass on menu selection to Sydney Squadron mid July and send email invitations to all life members in NSW by 30 June.**
- Prof Vassilios Agelidis offered to present a lecture on "Recent Advances in HVDC transmission Technology" for the Life Members second function for the year in say mid October.

Actions:

- **Prof Agelidis to confirm dates.**

9.3. Women In Engineering(WIE)

- No written Report.

Actions:

- **Kim Chin and David Burger to follow up Affinity Group formation**

10. Chapter Reports

10.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter- P Ananda Sanagavarapu chair
No report

10.2. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair

- David Burger to take over chapter in eleven days as Sam Reisenfeld is going to Italy on Sabbatical leave.
- Sam Reisenfeld would like three more lectures possible topics include NICTA, RTA Comms, Intelligent Transport Networks, Google Maps, State Rail, and Wireless Communications.
- Article UTS centre for Real Time Information Systems.
- Papers have been sent out Auswireless 2007 Darling Harbour. The most outstanding papers will be published as a chapter in a book.

Actions:

- **Sam Reisenfeld to request Johnson Agbinya send Section \$10,000 seed money application for Auswireless 2007. Contact details to Antony Zaglas and David Burger.**
- **David Burger to schedule time for introducing Conference at opening.**

10.3. **Computer chapter- Chair to be found.**
No Chair. No report.

Actions:

- **David Burger to follow up**

10.4. **Engineering in Medicine and Biology Society-** Dr Carolyn McGregor chair
No Report.

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

IEEE New South Wales Section 215th Executive Committee Meeting

Monday 4th June 2007 at 7pm

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

The new joint chapter held its first full technical meeting on 12th April.

We were very fortunate to have Emeritus Distinguished Lecturer, Professor Jagadish, travel from ANU to speak on his group's work on nano-structured semiconductor devices and their novel properties. Some interesting discussions followed over dinner at the local RSL.

Upcoming technical meetings:

Dr Ian Clarke (Optium Inc.),

"Case Studies in the Commercialisation of Photonics Technology"

5:30 for 6pm, 14th June, 8 Thomas St Chatswood.

Prof M. Selim Unlu (IEEE Distinguished Lecturer, Boston Univ.)

"Applications of Optical Resonance to Biological Sensing and Imaging"

12 noon, 29th June, E7B Mason Theatre Macquarie University,

Prof Unlu will also be giving a different presentation at UTS

(please contact G. Town for details).

Also, please note the June 11th deadline for submissions to the

IEEE Asian Solid-State Circuits Conference (A-SSCC), to be

held in Korea, 12th - 14th November, 2007.

Actions:

- ***David Burger to check where we are up to regarding joint chapter formalisation.***

10.6. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter- P Danny Soetanto chair

No report provided. There was some discussion regarding joint PEL/PES chapter. No action.

10.7. **Power Engineering Society** chapter- Antony Zaglas chair

Lecture by Ron Stillman on 13th September 2007. Forms submitted for one day workshop by Distinguished Lecturer Scott Rouse for 14 September 2007. Possible venues Engineers Australia or Energy Australia. A student lecture may be possible on 13 September 2007.

Actions:

- ***Tony Zaglas and John Robinson.***
- ***Coordinate with Mark Gordon regarding student lecture.***

11. Meetings and Conferences

11.1. Auswireless 2007

11.2. Oceans Conference 2010

11.3. ISCIT Conference October 17-19 2007

11.4. .

11.5. Spatial Systems (CRCSI 2008)

11.6. Region 10 2008 Student/GOLD/WIE Congress

11.7. ICITA 2008

11.8. Multiple conference on Systems and Control 1-3 October 2007

11.9. Wireless Sensor Networks Conference in December

11.10. Electrical Energy Society of Australia(EESA) Conference 13 to 14 September 2007

11.11. CISSE 2007 Conference 3 to 12 December 2007

11.12. Region 10 PES Chairs meet Beijing 24 to 26 October 2007.

IEEE New South Wales Section
215th Executive Committee Meeting

Monday 4th June 2007 at 7pm

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

12. Other Business

12.1. No other business

13. Next Meeting

13.1. Next Meeting will at 7:00pm on the 2nd July 2007, venue to be confirmed.

14. Meeting Closed

14.1. Meeting closed 9:10pm

IEEE New South Wales Section
216th Executive Committee Meeting
Monday 2nd July 2007 at 7:10pm
Chatswood RSL, The Library Meeting Room

1. Attendance

David Burger-Chair
Antony Zaglas
Jim Vasseleu
Graeme Gwilliam
Bruce Poon

Eddie Fong
Walter Lachs
David Tien
Rob Curtis

Guests

Apologies

Karu Esselle
John Robinson
Graham Town
Mark Gordon
Carolyn McGregor(Rest of Year)
Kim Chin
Vassilios Agelidis
Sam Reisenfeld(Rest of Year)
Ramutis Zakarevicius

2. Agenda

Jim Vasseleu Moved agenda be accepted
Seconded by Walter Lachs
Motion was passed

3. Minutes of May 2007 Meeting

3.1. Corrections

- item 7.2 – David Burger requested that the names of the chapters be added. The number of chapters was three not two. Spelling correction - dissent.

Actions:

Tony Zaglas to issue corrected minutes

There been no other corrections the minutes were taken as read.

3.2. Business Arising

- No other business

4. Correspondence

4.1. Eric Brown Email regarding Job Ad

Policy is no ads except for those in Circuit. \$300/half page and \$500/full page.

Actions:

- ***Tony Zaglas to advise that it is IEEE NSW Policy not to pass adds to members. Also advise Circuit advertising rates.***

4.2. Tony Zaglas read email from John Robinson regarding Scott Rouse visit.

4.3. Aerospace award was referred to Australia Council and it was rejected.

5. Treasurers Report

5.1. There was no written Treasurer's report.

Actions:

Rev: 0(Draft)

9 July 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
216th Executive Committee Meeting**

Monday 2nd July 2007 at 7:10pm
Chatswood RSL, The Library Meeting Room

- ***Graham Town still chasing invoices for LEOS DL Prof M. Selim Unlu. David Burger to check with Graham Town after 10/07/07 regarding status.***

5.2. Bank Accounts

- Forms need to be signed to close old bank accounts and transfer the money. Also need to sign forms connecting cheque account to internet banking.
- There are two new accounts, a Cheque Account and a Savings Account. Can only transfer money out of savings account to cheque account and two signatures are required. Each of the four Exec Officers will have a card.
- Each signatory will need to fill a form for Net Banking. Remaining forms were completed and signed to close old accounts and connect Internet Banking to Cheque Account. Still awaiting first statement for new accounts from CBA
- David Tien and David Burger signed withdrawal slip for final closure of Lane Cove account(about \$34,000)

Actions:

- ***Rob Curtis to arrange closure of account and funds transfer to new account.***
- Only David Tien, Ian Boyd and Graeme Gwilliam have access to the Cash Management Account. Rob Curtis could not get a statement from CBA for the CM account. David Tien had to obtain the statement. Graeme Gwilliam and David Tien to organise funds transfer. Co-ordinate with Rob Curtis.

Actions:

- ***David Tien, Graeme Gwilliam and Rob Curtis to organise funds transfer.***

- 5.3. The rebate of US\$11,604.05(AUD\$13,638.99) was credited to new IEEE NSW Section account. There is about \$120,000+interest in cash management account and about \$34,000 in Lane Cove CBA account

Actions:

- ***Rob Curtis to advise exact figures***

5.4. Student Grants.

- \$1000 per branch Student Grants were abandoned
- A motion was put by Rob Curtis and seconded by David Burger to give out 200 free student memberships for 2007. There were two in favour and one against the remainder abstained. The motion was withdrawn.
- A modified motion was put by Rob Curtis that 200 free memberships are offered this year for 2008 and was seconded by Jim Vasseleu. The motion was passed. An article or Ad in November CIRCUIT is to be prepared.
- A Poster is to be prepared and sent to each University for 2008 Student free memberships.

Actions:

- ***David Burger, Tony Zaglas and Mark Gordon.***
- ***Tony Zaglas to extract***

- 5.5. There was no budget tabled for 2007

- 5.6. Rob Curtis requested that Annual GST returns be submitted in lieu of the current quarterly. Jim Vasseleu moved the motion and Rob Curtis seconded. The motion was passed.

Actions:

- ***Rob Curtis to lodge quarterly GST return forms***

Rev: 0(Draft)

9 July 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
216th Executive Committee Meeting
Monday 2nd July 2007 at 7:10pm
Chatswood RSL, The Library Meeting Room

- 5.7. Tony Zaglas advised that NSW PES missed out on getting the High Performing Chapter Award. However NSW PES was able to get a Symposium grant for US\$500 for the Scott Rouse Workshop in September 2007.
- 5.8. **Graeme Gwilliam awaiting invoice from Engineers Australia for IEEE contribution to Engineering Week. \$1500+GST = \$1650.**
- 5.9. Tony Zaglas contacted Filita Barker by email and she replied that she was prepared to complete required forms but wanted to know what forms. Filita had previously advised Graeme Gwilliam verbally that she had spent about \$1800 out of \$2300 advanced to her by the Section. Filita needs to apply to R10 for the rebate originally \$800 (recently advised this will drop to \$400). Current estimate for total return was AUD\$500+US\$400 = \$1000 approximately.

Actions:

- **Graeme Gwilliam/David Burger to advise Tony Zaglas of forms required and to whom they should be submitted. NOTE ADDED BY TONY ZAGLAS: David Burger emailed copy of sample expenses claim to Tony Zaglas and this was forwarded on to Filita Barker. Completed forms and receipts to be sent to Graeme Gwilliam for forwarding to the region 10 Representative.**
 - **Filita Barker to complete and submit forms and refund NSW Section moneys not spent.**
- 5.10. David Tien moved motion that Committee reaffirm it will strictly follow IEEE financial procedures re: Travelling expenses being post claim based (ie no advances) Motion was seconded by Jim Vasseleu and was passed.
- 5.11. Graeme Gwilliam moved that the resolution be sent to R10 Student Co-ordinator (Delhi) and R10 GOLD Rep (Japan). Jim Vasseleu seconded and the motion was passed.

Actions:

- **Graeme Gwilliam to send resolution after receipt of confirmed minutes..**

6. Circuit Editor Report

- 6.1. July CIRCUIT has been issued electronically. The postal version will be issued this week by APC.

7. Chairs Forum

- 7.1. No further progress regarding outstanding Officer positions

- 7.2. **Communications, Signal Processing and Oceanic Engineering** joint chapter formation. Tony Zaglas to issue corrected June 2007 minutes.

Actions:

- **Tony Zaglas to issue corrected June minutes.**
- **John Robinson to contact Brian Ferguson and liaise with David Burger and Mal Herron.**

- 7.3. Formation of WIE Affinity Group is Pending

Actions:

- **Kim Chin and David Burger**

- 7.4. David Burger advised that Grahame Town moved a motion that all three society chapters, **Laser and Electro Optics, Circuits and Systems and Solid State Circuits** be

Rev: 0(Draft)

9 July 2007

Antony Zaglas (IEEE NSW Section Secretary)

**IEEE New South Wales Section
216th Executive Committee Meeting**

Monday 2nd July 2007 at 7:10pm

Chatswood RSL, The Library Meeting Room

joined. Graeme Gwilliam seconded the motion. The motion was passed with all in favour.

Actions:

- ***David Burger and Graham Town to follow up.***
- ***Tony Zaglas to check minutes regarding LEOS/CS/SSC joint chapter formation/petition.***

8. Committee Reports

8.1. Fellow Search

- No Update.

Actions:

- ***Ashok Manglik/Walter Lachs***

8.2. Membership Development

- Bruce Poon tabled membership report
- There was one new Senior Member enquiry.
- New applicants for Senior Member grade must submit a Senior Member application form together with a Membership application form and payment of their dues. The submission must be made by fax or mail and not by email or online.

8.3. Professional Activities

- Graeme Gwilliam was unable to attend any meetings. IEEE contribution for Engineering week \$1500+GST awaiting invoice from Engineers Australia.
- Electric Vehicles major seminar will go ahead and is listed in the events calendar. Sponsorship from industry is being sought. There will be six speakers.
- IEEE is two over quota for the year in the joint lecture program.

8.4. Educational Activities

- No report.
- David Burger has passed on to Kim Chin the video given to him by Karu Esselle.

Actions:

- ***David Burger and Kim Chin regarding educational video.***

8.5. Student Activities

- No report.
- Tony Zaglas advised that he got a response from IEEE regarding promotional codes and he was advised that they were in the process of reorganising these.
- Refer item 5.4 above regarding Free Student memberships.

Actions:

- ***Mark Gordon regarding Sydney University student chair***
- ***David Burger/Tony Zaglas regarding promotional codes for free student membership***
- ***Max Simons Prize \$1000 first and \$500 second to be initiated***

8.6. Awards and Recognition

- David Burger has ordered Friends of IEEE plaque for award to Northern Sydney Institute of TAFE North Sydney College. If answer from IEEE not forthcoming we need to prepare an interim plaque, it takes about ten days.

Actions:

Rev: 0(Draft)

9 July 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
216th Executive Committee Meeting**

Monday 2nd July 2007 at 7:10pm
Chatswood RSL, The Library Meeting Room

- **David Burger to follow up with IEEE regarding plaque for North Sydney TAFE. NOTE ADDED BY TONY ZAGLAS: IEEE Have advised that the plaque has been approved.**
- Cochlear is in the process of completing milestones award form. Contact is in Belgium and will return in about one week. NSW Section will be submitting the documentation to IEEE.

Actions:

- **David Burger and Rob Curtis to follow through.**

8.7. Nominations

- Nominations committee to endeavour to fill outstanding nominations for 2008 Officer Positions.
- Tony Zaglas pointed out that Circuit did not include him in the list of nominations.

Actions:

- **Nominations Committee to endeavour to fill remaining positions.**

8.8. Historian

- No report.

8.9. Webmaster

- Webmaster appointment still pending.

Actions:

- **David Burger to follow up**

9. Affinity Groups

9.1. GOLD Affinity Group

- No report.

9.2. Life Member Activities

- No report.

Actions:

- **JLR to pass on menu selection to Sydney Squadron mid July and send email invitations to all life members in NSW by 30 June.**
- Prof Vassilios Agelidis lecture on "Recent Advances in HVDC transmission Technology" for the Life Members will be a lunchtime lecture at Energy Australia theatre on 9 October 2007.

Actions:

- **David Burger to confirm EA theatre availability.**
- **John Robinson/Antony Zaglas to submit L31 forms for Life Member activities.**

9.3. Women In Engineering(WIE)

- No written Report.

Actions:

- **Kim Chin and David Burger to follow up Affinity Group formation**

10. Chapter Reports

- 10.1. Antennas and Propagation/Microwave Theory and Techniques joint chapter- P
Ananda Sanagavarapu chair
No report

Rev: 0(Draft)

9 July 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
216th Executive Committee Meeting
Monday 2nd July 2007 at 7:10pm
Chatswood RSL, The Library Meeting Room

10.2. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair

- No report.
- Jim Vasseleu moved that Johnston Agbinya application for commuting the 2006 Auswireless \$10000 financial contribution to the Auswireless 2007 Conference be approved. Eddie Fong seconded the motion. The motion was passed, there was one dissenting vote.

Actions:

- ***Tony Zaglas to advise Johnson Agbinya that his request for the \$10000 was granted.***

10.3. Computer chapter- Chair to be found.

No Chair. No report.

Actions:

- ***David Burger to follow up***

10.4. **Engineering in Medicine and Biology Society**- Dr Carolyn McGregor chair

Carolyn McGregor is moving to Canada but will run chapter from there until end of the year. There have been four meetings this year.

10.5. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter- AP

Graham Town chair

No report

Actions:

- ***Antony Zaglas to look up minutes regarding petition. David Burger to check where we are up to regarding joint chapter formalisation.***

10.6. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter- P

Danny Soetanto chair

No report provided.

10.7. **Power Engineering Society** chapter- Antony Zaglas chair

The application for the High Performing chapter award was not granted. A \$500 Symposium Grant was granted and funds will be forwarded to Rob Curtis. The one day workshop on energy efficiency and demand management will be held on 14 September 2007 with a venue to be decided. The EESA Conference organisers had offered to meet Scott Rouse's local expenses.

Actions:

- ***Tony Zaglas and John Robinson.***
- ***Coordinate with Mark Gordon regarding student lecture.***

11. Meetings and Conferences

11.1. Auswireless 2007

11.2. Oceans Conference 2010

11.3. ISCIT Conference October 17-19 2007

11.4. **Expenses for 2007 Region 10 Conference**

11.5. Spatial Systems (CRCSI 2008)

11.6. Region 10 2008 Student/GOLD/WIE Congress

11.7. ICITA 2008

11.8. Multiple conference on Systems and Control 1-3 October 2007

11.9. Wireless Sensor Networks Conference in December

Rev: 0(Draft)

9 July 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
216th Executive Committee Meeting**

Monday 2nd July 2007 at 7:10pm

Chatswood RSL, The Library Meeting Room

- 11.10. Electrical Energy Society of Australia(EESA) Conference 13 to 14 September 2007
- 11.11. CISSE 2007 Conference 3 to 12 December 2007
- 11.12. Region 10 PES Chairs meet Beijing 24 to 26 October 2007.
- 11.13. The 8th International Power Engineering Conference IPEC 2007 3-6 December 2007
Meritus Mandarin Singapore. <http://www.ipec.sg/>.
- 11.14. 1st International Conference on Signal Processing and Communications Systems
ICSPCS 2007 will be held at the Gold Coast from 17-19 December 2007 Radisson
Resort, Gold Coast. http://www.dspsc-witsp.com/icspcs_2007/cfp.html.

Actions:

- ***David Tien to advise Tony Zaglas of any Conferences.***

12. Other Business

- 12.1. Graeme Gwilliam advised the committee that he had been invited to join the IET
Global committee.

13. Next Meeting

- 13.1. Next Meeting will be at 7:00pm on the 6th August 2007.

14. Meeting Closed

- 14.1. Meeting closed 9:10pm

IEEE New South Wales Section

217th Executive Committee Meeting

Monday 6th August 2007 at 7:10pm
North Sydney College of TAFE, Library Room 3

1. Attending

David Burger-Chair
Bruce Poon
Graham Town
Walter Lachs
Faz Rahman
Danny Soetanto
Kate Carruthers

Guests

Andrew Dempster (IEEE Member)

Apologies

Karu Esselle
Antony Zaglas
Jim Vasseleu
Eddie Fong
David Tien
Rob Curtis
Graeme Gwilliam
John Robinson
Mark Gordon
Ramutis Zakarevicius
Kim Chin
Vassilios Agelidis
Mark Lee
Carolyn McGregor (remainder of Year)
Sam Reisenfeld (remainder of Year)

2. Agenda

The meeting was opened by the chair at 7:10pm.

Kate Carruthers moved the agenda be accepted minus the chair forum section.
Seconded by Walter Lachs
Motion was passed

3. Minutes of July 2007 Meeting

3.1. Corrections

- o nil

3.2. Business Arising

- o Nil

4. Correspondence

- o Copy of Region 10 office press release for the "35 years of IEEE in Australia" event.
- o The "Friends of IEEE" award letter and plaque was received.
- o IAS/IE/IA Distinguished lecturer visit proposal for Nov/Dec 2007.

5. Treasurers Report

- o No formal report tabled
- o Funding reconciliation regarding the GOLD and Students Congress last year needs to be finalised with Ms Filita Barker.
- o The Section electronic banking details have been despatched to signatories.

IEEE New South Wales Section

217th Executive Committee Meeting

Monday 6th August 2007 at 7:10pm
North Sydney College of TAFE, Library Room 3

6. Circuit Editor Report

- No report, **Eddie is looking for articles and input from committee members on something topical or something of interest to members to be included.**

7. Committee Reports

7.1. Fellow Search

- nothing to report.

7.2. Membership Development

- Bruce Poon tabled the membership stats report.
- There was one senior member enquiry.
- Membership numbers are picking back up.

7.3. Professional Activities

- The Ron Stillman presentation scheduled for the 13 September has been cancelled due to his hospitalisation.
- Updates to the big Events calendar have been made, and will be included with the distribution of these minutes. The 2008 Lecture program preparation has commenced as well. **We are actively seeking speakers and presenters from IEEE and industry and academia to fill this 2008 calendar.**

7.4. Educational Activities

- nothing formal to report, noting some minor follow up regarding the distribution CD contents.

7.5. Student Activities

- Mark Gordon tabled a WIP list of Student Branch contact points. This will eventually go up on our section website.
- The "Free 200 Student Membership" poster was passed around for review, and the wording etc needs some polish. Assistance by Kate and Bruce gratefully acknowledged here.

7.6. Awards and Recognition

- The "Friends of IEEE" plaque for award to Northern Sydney Institute of TAFE North Sydney College has been received. Representatives from North Sydney TAFE are attending our 35 year anniversary dinner for this award presentation.
- Cochlear is assisting in the process of completing the milestones award application form.

7.7. Nominations

- Nominations have been received for the 2008 committee.

7.8. Historian

- No updates to report. Future updates will be contingent on our new website upgrade.

7.9. Webmaster

- Webmaster enquiries have been received and the Visual Networks / Access database tool to manage our new look website is nearing completion.

8. Affinity Groups

8.1. GOLD Affinity Group

- No report.

IEEE New South Wales Section

217th Executive Committee Meeting

Monday 6th August 2007 at 7:10pm
North Sydney College of TAFE, Library Room 3

- 8.2. Life Member Activities
 - The 35 year anniversary dinner has been over-subscribed by around 18 people. John is investigating to see if the venue can accommodate an increase in numbers.
- 8.3. Women In Engineering(WiE)
 - No report. The WiE start-up petition is still active.
- 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- David Burger, acting chair
 - A follow up to the incorporating of the Ocean Engineering society as a joint chapter has been flagged with Brian Ferguson. Brian is assembling a OES petition as a follow up.
 - 9.3. **Computer chapter. (C16)**
 - Kate Carruthers has kindly taken on the role of chair, and is looking to establish communication with Computer Chapter members to assemble a committee. There are a number of speaker keen to present, as well an opportunity to establish a topical dinner / discussion forum. The new chair details have been reported to HQ.
 - 9.4. **Engineering in Medicine and Biology Society-** Carolyn McGregor chair
 - We had a great presentation by leading Sydney neurologist Dr Phil King on brainwave and an EEG demonstration.
 - 9.5. **Laser & Electro Optics/Circuits & Systems/Solid State Circuits** joint chapter. Graham Town chair.
 - Currently functioning as a joint chapter. A copy of the July'07 section minutes and the petition will be sent to HQ for formal ratification by Graham.
 - 9.6. **Power Electronics/Industry Applications Society/Industrial Electronics** joint chapter- Danny Soetanto chair.
 - Advice of a new DL presentation in December'07 was placed on the events calendar, with the date and venue to be confirmed.
 - Advice of a DL visitor early 2008 was flagged.
 - The AUPAC conference was also flagged in Nov/Dec'07.
 - 9.7. **Power Engineering Society** chapter- Antony Zaglas chair
 - No report.
 - Region 10 PES Chairs meet in Beijing 24 to 26 October 2007.
 - 9.8. **Education** chapter- Mark Lee chair.
 - No report.
- 10. Meetings and Conferences (in NSW)
 - 10.1. Auswireless 2007, progressing.
 - 10.2. Oceans Conference 2010 - progressing
 - 10.3. ISCIT Conference October 17-19 2007 - progressing

IEEE New South Wales Section

217th Executive Committee Meeting

Monday 6th August 2007 at 7:10pm
North Sydney College of TAFE, Library Room 3

- 10.4. Spatial Systems (CRCSI 2008) – no data, may not be relevant for NSW.
- 10.5. ICITA 2008 – no information, this may not be relevant for NSW.
- 10.6. Multiple conference on Systems and Control 1-3 October 2007 – no information, this may not be relevant for NSW.
- 10.7. Wireless Sensor Networks Conference in Dec'07 – no information.
- 10.8. The IGNSS Conference 2007 briefing overview was given by Mr Andrew Dempster, technical chair. It was agreed by the committee to offer technical co-sponsorship to this conference as requested. It is being held on 4 to 6 Dec'07 at UNSW. For more information, refer to www.ignss.org

11. Other Business

- The IGNSS 2007 conference as listed above.

12. Next Meeting

- Next Meeting - 7:00pm, 3rd September 2007.

13. Meeting Closed

- Meeting closed 8:10pm

**IEEE New South Wales Section
218th Executive Committee Meeting**

Monday 3rd September 2007 at 7:00pm

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

1. Attendance

David Burger-Chair
Antony Zaglas
Jim Vasseleu
Graeme Gwilliam
Bruce Poon
Kim Chin
Ramutis Zakarevicius

John Robinson
Kate Carruthers
Mark Gordon
David Tien(7:50)

Guests

Apologies

Rob Curtis
Karu Esselle
Walter Lachs
Eddie Fong
Danny Soetanto
Carolyn McGregor(Rest of Year)
Vassilios Agelidis
Sam Reisenfeld(Rest of Year)

2. Agenda

Items 5.6 and 10.11 to be deleted
Item 10.10 to be moved to PES Report

3. Minutes of August 2007 Meeting

3.1. Corrections

- There were no Corrections.
- David Burger moved that the minutes be accepted as a true record of the meeting and Bruce Poon seconded the motion. The minutes were accepted.

3.2. Business Arising

- No business arising

4. Correspondence

- 4.1. Northern Institute of TAFE sent letter of thanks for invitation to 35th Anniversary dinner and Friend of IEEE Plaque
- 4.2. Carlos Rueda Artunduaga Computer Society GOLD Coordinator sent an email thanking Phil Crawford and David Burger for any assistance provided to Alejandro Monroy who wishes to join NSW Computer society and GOLD.

5. Treasurers Report

5.1. There was no written Treasurer's report.

- Rob Curtis will submit a report in the next couple of weeks.
- Reconciliation of 35th Anniversary Dinner to be finalised

5.2. Bank Accounts

- All electronic banking has been done

5.3. PES \$500 Seminar Grant

- Tony Zaglas to check with Rob Curtis regarding \$500 grant.

Actions:

Rev: 0(Draft)

22 September 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
218th Executive Committee Meeting**

Monday 3rd September 2007 at 7:00pm

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

- ***Tony Zaglas to follow up with Rob Curtis as to whether monies have been received.***

5.4. 2006 GOLD Congress Report and Expenses

- Rob Curtis moved that we write a letter to Filita requesting report and any unspent monies. David Burger seconded the motion. The motion was passed.

Actions:

- ***Tony Zaglas to write a formal letter to Filita Barker requesting report and any unspent monies.***

6. Circuit Editor Report

6.1. Eddie Fong wants a number of articles for November Circuit, say 500 words by the beginning of October.

6.2. John Robinson to write article for 35th Anniversary Dinner.

Actions:

- ***All Committee members***
- ***John Robinson.***

7. Committee Reports

7.1. Fellow Search

- No Report.
- Follow up with Walter Lachs regarding Fellow Nominations

Actions:

- ***Tony Zaglas to check with Walter Lachs.***

7.2. Membership Development

- Bruce Poon tabled membership report
- Membership is steady
- Bruce Poon attended a function at Sydney University with a view to reactivate the student branch. Bruce Poon to forward details to Tony Zaglas for inclusion in minutes.

Actions:

- ***Bruce Poon to provide meeting details for appending to minutes.***

7.3. Professional Activities

- Engineering week completed. There will be feedback however do not know when
- Event of 13 September 2007 was cancelled due to illness of speaker
- 2008 Events programmed and are looking to fill some of the dates with speakers.

7.4. Educational Activities

- Graeme Gwilliam attended Woollooware High School and gave a talk to about thirty students interested in Engineering. The talk was organised through Industrial

7.5. Student Activities

- Free Student Membership offer to be sent out to October/November.
- David Burger to forward email regarding Student Branches to Tony Zaglas for inclusion in the minutes
- Tony Zaglas to coordinate with Mark Gordon regarding student lecture by Scott Rouse at Sydney University.

Actions:

Rev: 0(Draft)

22 September 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
218th Executive Committee Meeting**

Monday 3rd September 2007 at 7:00pm

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

- **Mark Gordon/Tony Zaglas regarding Sydney University Lecture by Scott Rouse**
- **David Burger regarding free student membership offer and Student Branches**

7.6. Awards and Recognition

- Friends of IEEE plaque awarded to Northern Sydney Institute of TAFE North Sydney College to be hung in the Library.
- Cochlear is in the process of completing milestones award form.

Actions:

- **David Burger and Rob Curtis to follow through regarding Milestones Award.**

7.7. Nominations

- There are five nominations for 2008 elected Section Officer Positions.
- Graeme Gwilliam to contact/solicit CV from other possible candidates.

Actions:

- **Graeme Gwilliam/Nominations Committee to endeavour to find candidates for all positions.**

7.8. Historian

- Photos of 35th Anniversary Dinner sent to David Burger, Eddie Fong, Graeme Gwilliam and David Tien. Photos to be also forwarded to John Robinson.

Actions:

- **Ramutis Zakarevicius to forward photos to John Robinson.**

7.9. Webmaster

- Webmaster appointment still pending.
- An application is close to being finished and is currently being debugged. Kate Carruthers may be able to act as webmaster in an interim capacity.

Actions:

- **David Burger to follow up**

8. Affinity Groups

8.1. GOLD Affinity Group

- Two functions have been held. Check that L31 forms have been submitted.

Actions:

- **Mark Gordon/Tony Zaglas(AZ Forms have been submitted)**

8.2. Life Member Activities

- 9th October 2007 Life Members Event at Energy Australia Theatre is in hand.
- Graeme Gwilliam recommended that the Life Member Committee Chair and past chairs be presented with a Life Member Pin at the cost of US\$20 each. Moved Graeme Gwilliam seconded Jim Vasseleu. The motion was passed.

Actions:

- **John Robinson/Antony Zaglas to submit L31 forms for Life Member activities.**
- **Antony Zaglas to order Life Member Pins.**

8.3. Women In Engineering(WIE)

**IEEE New South Wales Section
218th Executive Committee Meeting**

Monday 3rd September 2007 at 7:00pm

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

- Kim Chin advised that there had been two signatures to the petition for the formation of the affinity group. Kim to contact WIE at UTS for signatures and people from the Melbourne conference. Km Chin will also talk to Kate Carruthers.

Actions:

- ***Kim Chin and David Burger to follow up regarding obtaining remaining signatures and Affinity Group formation.***

9. Chapter Reports

- 9.1. **Antennas and Propagation/Microwave Theory and Techniques** joint chapter- P Ananda Sanagavarapu chair
No report – There have been two functions/meetings.

- 9.2. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair
- Awaiting financial report for Auswireless 2007.
 - Awaiting response regarding CSP/OCE joint chapter formation.

Actions:

- ***John Robinson to follow up with Brian Ferguson. David Burger to follow through with petition.***

- 9.3. **Computer Chapter- Kate Carruthers Chair.**
- Stefan Mozar has returned and is interested in assisting with the computer revitalisation of the Computer Chapter He has taken up the Vice Chair position.
 - Need to fill remaining committee positions.
 - New Web site <http://ewh.ieee.org/r10/nsw/c/> has been launched and online community posted at <https://www.ieeecommunities.org/ieeecsnsw>
 - sent invitations to members to sign up
 - Set dates for (a) Chapter meeting 27/9/07; and (b) Web SIG meeting 1/10/07
 - Sent an email newsletter to members (copy available on the website)
 - Two meetings have been held and another two scheduled. They are to be firmed up. They are not in the calendar.
 - Kate Carruthers will conduct a pole of members re topics of interest for lectures/functions
 - Any further ideas to help revitalise the chapter, or resources that can be provided would be much appreciated

Actions:

- ***Kate Carruthers/David Burger to finalise and list meeting and events in calendar/Web Site.***

- 9.4. **Engineering in Medicine and Biology Society- Dr Carolyn McGregor chair**
- Note from Carolyn McGregor. Five presentations have been held and another two are scheduled.
 - Don Malay, retired Biomedical Engineer, may be interested in participating in EMBS.

- 9.5. **Laser and Electro Optics/Circuits and Systems/Solid State Circuits** joint chapter- AP Graham Town chair
- Joint chapter petition has been submitted and response is being awaited from IEEE
 - There have been two lectures

Actions:

- ***David Burger/Graham Town to act and report as necessary.***

**IEEE New South Wales Section
218th Executive Committee Meeting**

Monday 3rd September 2007 at 7:00pm

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

- 9.6. **Power ELectronics/Industry Applications Society/Industrial ELectronics** joint chapter- P
Danny Soetanto chair
A number of meetings have been held and are being planned.

- 9.7. **Power Engineering Society** chapter- Antony Zaglas chair
- John Robinson will attend Region 10 PES Chairs meet Beijing 24 to 26 October 2007 in place of Tony Zaglas. A US\$200 contribution is required from the Section.
 - The one day workshop by Scott Rouse on Energy Efficiency and Demand Management is set for 14 September 2007. A US\$500 symposium grant has been obtained from IEEE to supplant NSW Section \$500 allowance.
 - Proposed short lecture by Scott Rouse at Sydney University. Mark Gordon to confirm.
 - Ron Stillman Lecture on 13 September has been cancelled as there is no substitute.

Actions:

- ***Tony Zaglas and John Robinson re Beijing PES Chairs Meet and Scott Rouse Workshop.***
- ***Tony Zaglas to Coordinate with Mark Gordon regarding student lecture.***

- 9.8. Education Chapter
- Page to be added to web site
 - Meeting at Crows Nest regarding Engineering Media and L31 Form has been Submitted.

Actions:

- ***L31 Report to be sent to Tony Zaglas along with details of officers.***
- ***David Burger and Kate Carruthers re web page***

10. Meetings and Conferences

David Tien volunteered to coordinate all conferences in NSW that the Section has a technical or financial interest. David Tien moved the motion and Graeme Gwilliam seconded. The motion was passed. Reports to be provided before and after Conferences. A report to David Tien is to be submitted with a statement of our commitment.

- 10.1. Auswireless 2007 is over and awaiting Conference financial report
- 10.2. Oceans Conference 2010 is progressing and subject to joint chapter formation regarding IEEE financial contribution.
- 10.3. ISCIT Conference October 17-19 2007
- 10.4. Spatial Systems (CRCSI 2008)
- 10.5. Region 10 2008 Student/GOLD/WIE Congress
- 10.6. ICITA 2008
- 10.7. Wireless Sensor Networks Conference in December

Actions:

- ***Tony Zaglas to contact Sam Reisenfeld for details.***
- 10.8. Electrical Energy Society of Australia(EESA) Conference 13 to 14 September 2007
- 10.9. CISSE 2007 Conference 3 to 12 December 2007
- ~~10.10. The 8th International Power Engineering Conference IPEC 2007 3-6 December 2007 Moritus Mandarin Singapore. <http://www.ipec.sg/>~~
- 10.11. IGNS 2007 conference, 4 to 6 December 2007 at UNSW. IEEE NSW Technical Sponsorship. Contact Andrew Dempster.
- 10.12. Other Meetings and Conferences

Rev: 0(Draft)

22 September 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
218th Executive Committee Meeting**

Monday 3rd September 2007 at 7:00pm

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

Actions:

- ***All Conferences to be reported to David Tien.***
- ***The NSW Chair should be invited to the opening and conference dinner as a guest. There should be a short introduction so as to boost the profile of IEEE NSW.***
- ***Email David Tien/David Burger to chapter reps, committee, etc***
- ***Advise whether TAB or RAB***

11. Other Business

- 11.1. Kate Carruthers moved a special thanks to John Robinson for organising the 35th Anniversary Dinner. Graeme Gwilliam seconded the motion. All expressed their appreciation.
- 11.2. R10 Director has made a request that everyone votes in the upcoming elections
- 11.3. John Robinson moved that we send a get well card to Ron Stillman.

Actions:

- ***Tony Zaglas organise card on behalf of the Section.***

12. Next Meeting

- 12.1. Next Meeting will be at 7:00pm on the 8th October 2007.

13. Meeting Closed

- 13.1. Meeting closed 8:00pm

IEEE New South Wales Section
219th Executive Committee Meeting
Monday 8th October 2007 at 7:00pm
Chatswood RSL Club, Victoria St

1. Attendance

David Burger-Chair
Antony Zaglas
Graham Town
Bruce Poon

John Robinson
Mark Gordon
David Tien

Guests

Apologies

Graeme Gwilliam
Rob Curtis
Jim Vasseleu
Kim Chin
Kate Carruthers
Ramutis Zakarevicius
Karu Esselle

Walter Lachs
Eddie Fong
Danny Soetanto
Vassilios Agelidis
Carolyn McGregor(Rest of Year)
Sam Reisenfeld(Rest of Year)

2. Agenda

Agenda accepted

3. Minutes of September 2007 Meeting

3.1. Corrections

- Delete 7.5 item 2.
- 9.4 item 2 name should be Don Melley

The minutes were accepted.

3.2. Business Arising

- No business arising

4. Correspondence

4.1. Ron Stillman sent letter of thanks for get well card.

4.2. John Vic Presidential candidate is coming to Sydney. David Tien will book Dinner for 23 November and circulate details. Propose Boathouse Restaurant off Glebe Point Rd.

Actions:

- ***David Tien to follow up with and advise.***

5. Treasurers Report

5.1. There was no written Treasurer's report.

- David Burger to forward report for inclusion in minutes.

5.2. Bank Accounts

- Details of accounts to be provided

5.3. 35th Anniversary Dinner payment issued

5.4. PES \$500 Seminar Grant

- Tony Zaglas to check with Rob Curtis regarding \$500 grant.

Actions:

- ***Tony Zaglas to follow up with Rob Curtis as to whether monies have been received.***

Rev: 0(Draft)

22 October 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
219th Executive Committee Meeting
Monday 8th October 2007 at 7:00pm
Chatswood RSL Club, Victoria St

5.5. Awaiting report for Auswireless 2007

5.6. 2006 GOLD Congress Report and Expenses

- Tony Zaglas sent letter to Fillita Barker on 8 October 2007 to last recorded address.

5.7. Sydney Mechanics School of Arts & Scott Rouse DL Expenses

- Tony Zaglas to check with Rob Curtis and send invoices

Actions:

- ***Tony Zaglas to follow up with Rob Curtis and submit expenses claim.***

5.8. Item deleted

5.9. item deleted

5.10. Rob Curtis is resigning as Treasurer. He is moving overseas in November. David Tien offered to help with ATO and BAS. Rob Curtis to talk to David Burger and David Tien regarding transition.

Actions:

- ***David Burger and David Tien to liaise with Rob Curtis regarding transition***
-
- ***Nominations Committee.***

6. Circuit Editor Report

6.1. Circuit input required by end of week.

Actions:

- ***All Committee members***
- ***John Robinson.***

7. Committee Reports

7.1. Fellow Search

- No Report.

7.2. Membership Development

- Bruce Poon tabled membership report
- Student Membership is down 13% with respect to the same time as last year
- Membership is down 3% with respect to the same time as last year
- Bruce Poon will be in Melbourne during the AGM.

Actions:

- ***Bruce Poon to provide info to Eddie Fong for Circuit.***

7.3. Professional Activities

- Lecture program for 2008 to be followed up by David Burger

7.4. Educational Activities

- David Burger and Kim Chin to meet next week to go over CD and other matters.

7.5. Student Activities

Rev: 0(Draft)

22 October 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
219th Executive Committee Meeting**

Monday 8th October 2007 at 7:00pm

Chatswood RSL Club, Victoria St

- UNSW student branch lead by two female student members.
- Proposal by Jim Vasseleu regarding unused funds discussed briefly. Prizes considered appropriate. Assessment of prizes by Universities was proposed. Say \$5000 to each University in perpetuity. Postgraduate Gold Medal for each University each year. Needs further development. Suggestion for item in Circuit.
- Decision regarding funding of student prizes carried over to next meeting.

Actions:

- **David Burger regarding free student membership offer and Student Branches**
- **David Burger/Jim Vasseleu regarding article in Circuit**

7.6. Awards and Recognition

- Australia Council Outstanding Student Branch Award. UNSW representing NSW.

7.7. Nominations

- Names of Eddie Fong, Ali Hellany and Candice Gilmore to be added to current Committee. Rob Curtis is withdrawing.

7.8. Historian

- No Report

7.9. Webmaster

- Content Manager in Hand.
- Will set up test site

Actions:

- **David Burger to follow up**

8. Affinity Groups

8.1. GOLD Affinity Group

- Bruce Poon to send info to Mark Gordon regarding Green Power lectures
- Two events have been held and L31 forms have been submitted.

Actions:

- **Bruce Poon to forward information regarding green power event.**

8.2. Life Member Activities

- One function held and another tomorrow. Tony Zaglas to submit L31 form for HVDC lecture by Vassilios Agelidis

Actions:

- **John Robinson/Antony Zaglas to submit L31 forms for Life Member activities.**

8.3. Women In Engineering(WIE)

- Two more supporters have come forward.

Actions:

- **Kim Chin and David Burger to follow up regarding obtaining remaining signatures and Affinity Group formation.**

9. Chapter Reports

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

Rev: 0(Draft)

22 October 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
219th Executive Committee Meeting**

Monday 8th October 2007 at 7:00pm

Chatswood RSL Club, Victoria St

No report – Tony Zaglas to check regarding proposed DL

Actions:

- ***Antony Zaglas to check with Ananda Sanagavarapu.***

9.2. **Communications and Signal Processing** joint chapter- AP Sam Reisenfeld chair

- Awaiting financial report for Auswireless 2007.
- Awaiting response regarding CSP/OCE joint chapter formation.
- Five lectures have been held

Actions:

- ***John Robinson to follow up with Brian Ferguson. David Burger to follow through with petition.***

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

- Success Chapter meeting held on 27/9/07 at Commercial Travellers Club Sydney to select new Chapter Committee. Committee members are: Kate Carruthers (Chair); Stefan Mozar (Vice-Chair); Efren Katague; Mark Phillips; Norman Goh; Vladimir Tomic. Plans under way for a seminar to be held in November 2007.
- Chapter's new Web SIG held first meeting on 3/10/07 at NICTA, Australian Technology Park Redfern. Six members attended with apologies from several more. Plans underway for next meeting in November.
- The Chapter online community now has 56 active members.

9.4. **Education Chapter**

- New web page to be set up

Actions:

- ***David Burger regarding web page.***

9.5. **Engineering in Medicine and Biology Society**- Dr Carolyn McGregor chair

- One or two additional events to be held.
- AGM-David Burger to include item in Circuit regarding Nominations.

Actions:

- ***David Burger to include item in Circuit regarding nominations***

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

- Joint chapter petition response is being awaited from IEEE
- Another one or two DLs in early November. Section support requested. Graham Town to send details to David Burger and Tony Zaglas

Actions:

- ***Graham Town to provide DL details including budget costs.***

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

- DL organized by Faz Rahman for UNSW and University of Newcastle for October. Charge proposed \$50. David Burger to talk to Faz regarding \$50 and advise.

Actions:

- ***David Burger to talk to Faz re \$50 charge and advise.***

9.8. **Power Engineering Society** chapter- Antony Zaglas chair

Rev: 0(Draft)

22 October 2007

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
219th Executive Committee Meeting**

Monday 8th October 2007 at 7:00pm

Chatswood RSL Club, Victoria St

- Scott Rouse workshop attendance was 9. Need to consider changing time.
- Short lecture by Scott Rouse at Sydney University attended by 20 students and staff.
- Tony Zaglas to follow up with Rob Curtis and submit expenses claim.
- John Robinson attending PES R10 Chairs meet in Beijing. Small NSW financial support required.
- PES Nominations for 2008 in circuit.

Actions:

- ***Tony Zaglas and John Robinson re Beijing PES Chairs Meet.***
- ***Tony Zaglas to submit Scott rouse expenses to Rob Curtis.***

10. Meetings and Conferences

10.1. Auswireless 2007 is over and awaiting Conference financial report.

Actions:

- ***David Burger to follow up.***

10.2. Oceans Conference 2010 is progressing and subject to joint chapter formation regarding IEEE financial contribution. 12 signatures have been aquired.

Actions:

- ***Paperwork to be submitted. John Robinson to follow up with Brian Fergusson.***

10.3. ISCIT Conference October 17-19 2007

10.4. Spatial Systems (CRCSI 2008)

10.5. Region 10 2008 Student/GOLD/WIE Congress

10.6. ICITA 2008

10.7. Wireless Sensor Networks Conference in December

Actions:

- ***Tony Zaglas to contact Sam Reisenfeld for details.***

10.8. Electrical Energy Society of Australia(EESA) Conference 13 to 14 September 2007

10.9. CISSE 2007 Conference 3 to 12 December 2007

10.10. IGNSS 2007 conference, 4 to 6 December 2007 at UNSW. IEEE NSW Technical Sponsorship. Contact Andrew Dempster.

10.11. Advise Tony Zaglas re any conferences if posting on Engineers Australia Web Site is required

10.12. David Tien will set up Conferences web page linked to new IEEE NSW site

Actions:

- ***All Conferences to be reported to David Tien.***
- ***The NSW Chair should be invited to the opening and conference dinner as a guest. There should be a short introduction so as to boost the profile of IEEE NSW.***
- ***Email David Tien/David Burger to chapter reps, committee, etc***

11. Other Business

11.1. AGM

- Tony Zaglas to follow up with Boronia Lounge re AGM proposal. Also check Stamford in Epping. Graham Town suggested MGSM at Macquarie Uni. John Robinson suggested the Kirribilli Ex Serviceman's club reopening end October.

Actions:

- ***Tony Zaglas to follow up AGM venue.***

11.2. Uncommitted funds discussion carried over to November

Rev: 0(Draft)

22 October 2007

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
219th Executive Committee Meeting

Monday 8th October 2007 at 7:00pm

Chatswood RSL Club, Victoria St

- 11.3. Section and chapter nominations to be finalised for November if possible

12. Next Meeting

- 12.1. Next Meeting will be at 7:00pm on the 5th November 2007.

13. Meeting Closed

- 13.1. Meeting closed 8:30pm

IEEE New South Wales Section
220th Executive Committee Meeting

Monday 5th November 2007 at 7:00pm

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

1. Attendance

David Burger-Chair
Antony Zaglas
Graham Town
Bruce Poon
Kim Chin

Mark Gordon
David Tien
Karu Esselle
Faz Rahman

Guests

Apologies

Graeme Gwilliam
Rob Curtis
Jim Vasseleu
Ramutis Zakarevicius
Walter Lachs

John Robinson
Eddie Fong
Vassilios Agelidis
Carolyn McGregor(Rest of Year)
Sam Reisenfeld(Rest of Year)

2. Agenda

Agenda accepted

3. Minutes of October 2007 Meeting

3.1. Corrections

- No corrections

The minutes were accepted.

3.2. Business Arising

- No business arising

4. Correspondence

4.1. John Vic Presidential candidate is coming to Sydney. David Tien will book Dinner for 23 November and circulate details. Propose Pier One Restaurant. Kirribilli Ex Serviceman's is an alternative. 6:30 for 7:00pm.

Actions:

- ***David Tien to follow up with John Vic and advise.***

5. Treasurers Report

5.1. David Tien tabled Summary.

- David Tien will handle expense claims.
- Fax or email of expense forms and receipts.
- David Tien to do GST reports by end of year
- David Tien/David Burger to submit L50 form

5.2. Bank Accounts

- Investment Account Statement to David Tien
- Cheque Account to have David Tien added and statements to be sent to David in lieu of Rob Curtis
- When original cheque account closed there was about \$36k
- Need new Treasurer. Ian Collings has expressed some interest in the treasurers position

5.3. Filita Barkers advance

Rev: 0(Draft)

03 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

pp1 of 4

**IEEE New South Wales Section
220th Executive Committee Meeting**

Monday 5th November 2007 at 7:00pm

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

- David Burger moved motion that Filita Barkers advance be written off. Graham Town seconded the motion. There were no objections and the motion was passed.

Actions:

- ***David Burger to follow up with Ian Colligns regarding Treasurers position.***

6. Circuit Editor Report

- 6.1. Circuit published and has gone to printers. All member email scheduled for dispatch tonight.

7. Committee Reports

7.1. Fellow Search

- No Report.

7.2. Membership Development

- Bruce Poon advised that the SAMIEEE was being updated and It was not possible to get report in time.

7.3. Professional Activities

- There have been a couple of additions to the Lecture program for 2008. There are some vacancies in the early dates. Need someone for February.

7.4. Educational Activities

- IT in engineering school visit by Kim Chin. CD in progress. Abstract submitted by Kim Chin to US but no feedback as to if accepted.

7.5. Student Activities

- Student free membership offer flyer to go out this month. David Burger and Mark Gordon to arrange.
- Further discussion of proposal by Jim Vasseleu regarding unused funds. Prizes for postgraduates considered. Suggestion that each University Engineering foundation be approached with proposal for their views. There is a delivery mechanism for undergraduates.
- Decision regarding funding of student prizes carried over to next meeting.

7.6. Awards and Recognition

- Karu Esselle will be the third Australia Council judge
- David Burger to advise results of Australia Council Outstanding Student Branch Award tomorrow.

7.7. Nominations

- Refer circuit.

7.8. Historian

- David Burger received minutes from Australian Professional Centre.

7.9. Webmaster

- There have been a couple of expressions of interest in the webmasters position.
- Content manager beta has been beta tested.
- Will load dummy page for testing.

Rev: 0(Draft)

03 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE New South Wales Section
220th Executive Committee Meeting

Monday 5th November 2007 at 7:00pm

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

Actions:

- **David Burger to follow up**

8. Affinity Groups

8.1. GOLD Affinity Group

- Mark Gordon has received information regarding lectures from Bruce Poon.
- Two events have been held. Mark Gordon to advise numbers for lectures.
- Mark Gordon has received a position in Demark and is leaving end of November.

8.2. Life Member Activities

- Two functions held.

Actions:

- **John Robinson/Antony Zaglas to submit L31 forms for Life Member activities.**

8.3. Women In Engineering(WIE)

- Email to 160+ members has been sent regarding the petition to form the affinity group. Some have asked for information as to what is being done.

Actions:

- **Kim Chin and David Burger to follow up regarding obtaining remaining signatures and Affinity Group formation.**

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- AP Sam Reisenfeld chair

- Awaiting feedback regarding CSP/OCE joint chapter formation.

Actions:

- **John Robinson to follow up with Brian Ferguson. David Burger to follow through with petition.**

- 9.3. Computer Chapter- Kate Carruthers Chair.

- No Report.

- 9.4. Education Chapter

- No Report.

- 9.5. Engineering in Medicine and Biology Society- Dr Carolyn McGregor chair

- No report.

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

- Three or four meetings this year and three DL's(two in November and one in December). Expect small claims for hotels, transport, etc. say a couple of hundred dollars.

Actions:

- **Graham Town to provide DL details including budget costs.**

Rev: 0(Draft)

03 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

**IEEE New South Wales Section
220th Executive Committee Meeting**

Monday 5th November 2007 at 7:00pm

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

- 9.7. **Power E**lectronics/**I**ndustry **A**pplications **S**ociety/**I**ndustrial **E**lectronics joint chapter- P
Danny Soetanto chair

- Faz to send costs for DL's to David Tien. There were about 20 at the UNSW recent lecture on hybrid vehicles.

- 9.8. **Power E**ngineering **S**ociety chapter- Antony Zaglas chair

- John Robinson attending PES R10 Chairs meet in Beijing and needs to lodge claim. \$2300 claim figure was queried. Most of the cost will be met by PES R10.

Actions:

- **John Robinson to submit claim.**

10. Meetings and Conferences

- 10.1. Auswireless 2007 is over and awaiting Conference financial report.

Actions:

- **David Burger to follow up.**

- 10.2. Oceans Conference 2010 is progressing and subject to joint chapter formation regarding IEEE financial contribution. 12 signatures have been acquired.

Actions:

- **Paperwork to be submitted. John Robinson to follow up with Brian Fergusson regarding required paperwork.**

- 10.3. ISCIT Conference October 17-19 2007

- 10.4. Spatial Systems (CRCSI 2008)

- 10.5. Region 10 2008 Student/GOLD/WIE Congress

- 10.6. ICITA 2008

- 10.7. Wireless Sensor Networks Conference in December

- 10.8. Electrical Energy Society of Australia(EESA) Conference 13 to 14 September 2007

- 10.9. CISSE 2007 Conference 3 to 12 December 2007

- 10.10. IGSS 2007 conference, 4 to 6 December 2007 at UNSW. IEEE NSW Technical Sponsorship. Contact Andrew Dempster.

- 10.11. Advise Tony Zaglas re any conferences if posting on Engineers Australia Web Site is required

- 10.12. David Tien will set up Conferences web page linked to new IEEE NSW site

11. Other Business

- 11.1. AGM

- Jim Vasseleu in Rehabilitation Hospital. He may be at the AGM or may not depending on his condition improving.

- Tony Zaglas to PDF AGM dinner menu to committee. No charge for the executive committee

- Bruce Poon advised his apology as he will be in Melbourne

Actions:

- **Tony Zaglas to follow up.**

12. Next Meeting

- 12.1. Next Section Executive Meeting will be at 7:00pm on the 4th February 2008(**NOTE: changed to 11 February**).

13. Meeting Closed

- 13.1. Meeting closed 8:30pm

Rev: 0(Draft)

03 February 2008

Antony Zaglas(IEEE NSW Section Secretary)

IEEE NSW SECTION 2007 REPORT (AGM)



Prepared by David E Burger k3hz@ieee.org
Section Chair – 2007.

PART A - SECTION SUMMARY

A.1 Executive Summary

Major Events and Achievements in the year:

- Startup of a new Education Chapter in April 2007.
- 35th Anniversary Dinner for IEEE in Australia held on 16 August 2007, with the IEEE Region 10 Director, Janina attending.
- Major expansion of historical and heritage material for NSW and Australia at the IEEE NSW Section WebPages, forming a basis to R10 special project on History.
- New web template for IEEE Sections was setup as a beta test for the NSW Section website in Nov 2007. Looking to go live in Dec'07.
- Issue of the first Australian "Friend of IEEE RAB Award". This was made to the NSW TAFE College at our 35 year anniversary.
- First submission made to the IEEE Milestones Award from Oceania, the first submission in R10 outside Japan.
- The founding member of the original Australia Section (now NSW Section), Mr Jim Vasseleu was hospitalised briefly in October'07 and as a result, his active involvement in the section will need to be wound back.
- Auswireless 2007 conference hosted at UTS.

A.2 Financial Report

Our treasurer Rob Curtis had taken up an engagement in Europe in late October, and has had to relinquish the position of Treasurer. The L50 report and financial completion tasks will be shared among the committee who have had experience in the treasurer role.

It was resolved the Section no longer provide any cash advances to committee for travel and events. This has come about due to protracted delays and difficulties in settling.

A brief highlight of the income/expense and balance will be distributed separately.

A.3 List of Section Officer and Executive Committee Members

IEEE NSW Section Committee Contacts 2007		
Name	Responsibility	Member No:
Ananda Sanagavarapu	Chapter Chair AP/MTT	M03519972
Antony Zaglas	Section Secretary	M02772515
Bruce Poon	Membership Development	SM8195588
Carolyn McGregor	EMBS Chapter Chair	SM85008607
Danny Sutanto	PEL/IAS/IE Chapter Chair	SM07718497
David Burger	Section Chair / AP/MTT Chapter Secretary / Comsig Chapter Secretary	SM7425952
David Dapeng Tien	Section Vice Chair	M00496430
Eddie Kui Pun Fong	Circuit Editor	M04333191
Faz Rahman	Power Elec/Indust. Elec/Indust. Applic Chapter Chair	M7822828
Filipa Barker	On Leave	GSM 40311658
Graeme Gwilliam	Past Chair, Professional activities, Nominations.	LSM7233935
Graham Town	LEOS/SSC/CS Chapter Chair	SM8365207
Jim Vasseleu		LSM05968193
John Robinson	Chair - Life Member Affinity	LSM06377295
Karu Esselle		SM2461861
Kate Carruthers	Computer Chap Chair	M40326991
Lakshmi Narasimhan		M8934341
Mark Gordon	GOLD Chair	M41632847
Ms Kim Chin	Education	M80526262
Ramutis Zakarevicius	Historian	LSM1652619
Rob Curtis	Section Treasurer	SM40028427
Rob Menegon	Webmaster to April '07	M40253959
Sam Reisenfeld	Chapter chair ComSig	M05540083
Vassilios G. Agelidis		SM
Walter Lachs	Fellow Search	F07517295

PART B - ORGANISATIONAL ACTIVITIES

B.1 Membership Development Programs

- Effort in Membership Development

IEEE NSW targeted another 200 free student memberships, this time the student memberships are being offered for a full year in 2008. Professional Institution presentations to 1st year engineering students during the first week of student attendance at The University of Sydney.

- Evidence of retention of members

The 2007 data shown is valid at September 2007, showing an upturn in memberships.

IEEE NSW Section

Australian Section

Year	Fellow	Senior	Member	Associate	Student	Total IEEE Members	Affiliates
2007					350	2337	154
2006	19	152	1613	88	446	2318	165
2005	15	131	1617	103	540	2406	191
2004	16	123	1571	100	418	2228	178
2003	15	126	1582	204	532	2459	210
2002	15	139	1492	243	559	2448	250
2001	16	134	1514	310	317	2291	262
2000	16	129	1544	240	357	2286	286
1999	16	124	1484	210	293	2127	378
1998	16	123	1473	181	345	2138	338
1997	16	113	1389	158	287	1963	281
1996	15	107	1336	167	285	1910	262
1995	14	93	1376	147	253	1883	274
1994	13	87	1266	88	302	1756	263
1993	10	85	1293	76	192	1656	194
1992	9	77	1202	75	200	1563	114
1991	9	63	1155	80	165	1472	113
1990	7	56	1026	74	171	1334	118
1989	6	56	911	74	141	1188	124
1988	5	58	833	58	121	1075	84
1987	6	64	826	45	117	1058	81
1986	5	64	720	44	100	933	76
1985	4	64	698	38	93	897	82
1984	5	77	954	44	183	1263	97
1983	5	79	916	57	185	1242	83
1982	5	86	1252	77	166	1586	117
1981	4	64	802	48	117	1035	80
1980	3	67	700	44	177	991	46
1979	3	64	680	38	142	927	35
1978	1	56	609	33	121	820	23
1977	1	53	507	18	113	692	16
1976	1	53	459	20	90	623	12
1975	1	54	384	17	96	552	8
1974	1	59	449	35	107	651	11
1973	1	51	400	33	80	565	7
1972	1	53	324	33	56	467	4

- GOLD, WIE and Infirmary Group Activity
- GOLD activity had two lecture / social functions, closely connected to the WiE group and in concert with other professional institutions.
- Startup petition being canvassed for a new WiE group here in New South Wales. This is being championed by Ms Kim Chin.

B.2 Professional and Continuing Education Activities

Continuing Educational activities including conferences, technical event, training courses should be summarised and reported. Refer to Appendix 1, 2007 events calendar.

B.3 Students Activities

- Active Student Branches activity

The University of New South Wales has an active student branch, and participated in the IEEE Australia Council Student Branch award in 2007.

- 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. We have had to work out a means of making this possible given on-line joining methods. This resulting in no sponsorship being conducted in 2007, but we have agreement in place to provide a full 12 month membership in 2008, with student notices being sent out in October 2007.
2. The IEEE have also secured a place in the 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 not undertaken, as it was not until August 2007 that members of the section committee meetings actually allowed the meetings to address the full agenda in the available time.

B.4 E-mail and Newsletter Activities, Home Page

- Number of hard print Newsletter – one hardcopy newsletter to all members, and two others to those without e-mail addresses, or requesting paper copies.
- Number of electronic Newsletters – The Newsletters are titled **Circuit**. Three issues were produced in 2007, delivered on both e-mail and web. Additionally there was a monthly e-mail update issued to all members in NSW. All the IEEE events were also publicised at the local IET level as well as to the Engineers Australia membership located in NSW.

- 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/> There has been a major effort in producing a history and heritage material resource at our WebPages.

Student Branch WebPages:

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

IEEE NSW effectively lost our webmaster mid-year, and a means of moving forward with a new webmaster halted website updates for a couple of months.

An initiative to provide a high level of website update automation was accomplished with a 'Content Manager' application written in Visual Networks and utilising an MS Access database as a repository. This had also been beta-tested by the kind assistance of the IEEE Sri Lanka Section, who up to early 2007 had not had an active website. This uses the new IEEE section web templates as the basis of a simple content management system.

IEEE NSW will make this website template based content management system available to all sections and councils early 2008. The system was kindly developed by Mr Stephen Lee (a non IEEE member).

B.5 Awards

- The recent RAB Award "Friends of IEEE" was presented to the North Sydney College of TAFE, St Leonards Campus for hosting the IEEE section meetings at no cost for the past 10 years. This was the first such award in Australia.
- IEEE NSW hosted the IEEE Australia Council Student Branch award program for 2007. This was publicised nationally throughout Australia. There were 3 applicants. The NSW Section was the award administrator in 2007, on behalf of the IEEE Australia council committee.
- The Region 10 Director, Janina Mazierska presented the IEEE NSW Section with a 35 year anniversary plaque in August 2007.

B.6 Chapter Activities

- For a summary of Chapter and related Activities, Refer to Appendix 1, 2007 Events calendar.

Joint Communications and Signal Processing Society Chapter. (ComSig)

Midway through 2007, a decision was made to add the Oceans Engineering Chapter as a joint chapter to the existing Joint ComSig Chapter here. The petition resides with Oceans Engineering members to get this started.

Computer Society Chapter (CS)

We thank Ms Kate Carruthers for stepping forward as a Chapter Chair part way into 2007. Kate has introduced new discussion forum's and is developing a social round table series of discussions and member networking in Sydney.

The NSW Computer Society has a new web page which highlights the initiatives.

Engineering Medicine Biology Society Chapter (EMBS)

The EMBS Society has maintained a high level of activity with very respected presentations, including those Cochlear.

The chair Dr Carolyn McGregor had relocated to Canada midway through 2007, and has still been able to manage the section by remote control.

Power Engineering Society chapter (PES)

PES has sponsored a DL from the USA to present on Sustainability in September. The chair is Antony Zaglas.

Joint Microwave Theory & Techniques / Antennas propagation Society Chapter (MTT/AP)

The MTT/AP Society chapter had a flurry of activity early in the year, with the committee being sidelined to an extent in the latter part of 2007.

Joint Laser Optics, Solid State Circuits and Circuits & Systems Society Chapter (LEOS/SSC/CS)

The chair Graham Town has been very active in securing quality speakers and a DL presentations. Both presentations were very well received. The joint chapter petition with LEOS and associated application was formally re-submitted mid 2007.

Much activity has commenced at Macquarie University, being championed by Graham.

Joint Power Electronics / Industrial Applications / Industrial Electronics Society Chapter (PEL/IAS/IE)

The chapter chair Danny Soetanto is based at Wollongong. This chapter has been instrumental in securing the highest number of presentations for this chapter in recent years.

Education Chapter (EC)

This chapter was formed part way through the year on 10th May 2007. An e-learning forum discussion with other engineering institutions here has been started. The chair is Mark Lee, a postgrad student at CSU.

PART C – GOALS AND PLANS

C.1 Goals

- 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.
- To promote more large conferences in Sydney & greater NSW.
- To champion the student paper contest back into life, and to promote student memberships in all NSW Universities in 2008.

C.2 Implementation Plans

- The banking consolidation is underway with our treasurer, Rob Curtis. Rob has had to glean information and authorities from past years treasures to make this happen.
- Mr David Tien has kindly taken on the initiative to nominate Sydney & NSW to host some of the larger IEEE conferences in upcoming years. This includes requesting each conference organiser to make allowance for a 3 minute briefing by our section Chair at the start of each conference here in NSW.

PART D - OTHERS

D.1 Relationship with National Societies

- An Memo of understanding is active between Engineers Australia and the IET during 2007. We have also cooperated in an Engineering week program held mid-year with Engineers Australia.
- The Joint lecture program this year is the largest ever undertaken between the three societies here in New South Wales. Refer to Appendix 1 – 2007 Events Calendar.

D.2 Special Events

- A 35 years in Australia anniversary dinner, including a presentation by the people connected with our very 1st member of AIEE (IEEE) here in Australia ! This was promoted as a Life Member function and held at the same venue at the 30th Anniversary function in 2002. Our Region 10 Director attended, and Janina presented a 35 year plaque to the NSW Committee. Refer to Appendix 1 – 2007 Events Calendar.

D.3 Concern areas and suggestions

- To streamline financial matters and handovers between treasurers. The handover from the 2006 treasurer to 2007 treasurer took 3 months, with an investment account handover stalling completely. The '07 outgoing treasurer has prepared a detailed handover checklist for new treasurers, and outgoing treasurers.
- To get IEEE to update the date validation for the L31 meeting submission form. The current meeting entry system does not account for any timezones (dates) AHEAD of the USA.
- Visibility of Student Branches is still a very major concern, because in the absence of any direct communication between SB and Section, we do not get to appreciate what is happening across the 12 Universities in NSW, especially in a large city. Only three of the NSW Universities are represented at the Section committee level.

D.4 History & Heritage Documentation

The continued expansion of the IEEE History and Heritage information here in NSW continues to grow, albeit slowly. A near complete set of section minutes and some financials were obtained in October 2007 for the period of 1977 through to 1985. A big thankyou.

For those with 'cartons' of IEEE material in their back sheds, we would love to find IEEE Section related material prior to 1977 and anything between 1983 and 2000 !

IEEE, IET, Engineers Australia & Related Technology Events Calendar, NSW 2007 / 2008 / 2009 / 2010 / 201.

2007	Event	Speaker	Host	Venue [ensure you re-confirm beforehand]
15/01/2007 - 16/01/2007	Dinner with the IEEE 2007/2008 Region 10 Director		IEEE	The Rangoon Racquet Club
11/01/07	Joint IEEE/IET/EAust Lecture Program meeting		Joint	570 George St, SYDNEY
1/02/2007	Joint Electrical Branch meeting		Joint	6.00pm to 7:30pm - Chairman's Room, 8 Thomas, Chatswood
5/02/2007	IEEE NSW SECTION - Meeting		IEEE	(7.00-9.00pm) Seminar Room 1 - Library Gore Hill TAFE
5/02/2007	Joint IEEE/IET/EAust Lecture Program meeting		Joint	(6.00-7.00pm) Seminar Room 1 - Library Gore Hill TAFE
5/02/2007 to 7/02/2007	6th International Asia-Pacific Symposium on Visualization (APVIS), Meeting #1232. [Fees may apply].	apvis2007@nicta.com.au	IEEE Computer Society (USA)	Locomotive Workshop Bay 15, Australian Technology Park, Garden St, Redfern
6/02/2007	Role of International Standards in Electrical Safety	Bruce McClung, PE	IEEE-IAS/PELS/IES	6:00pm to 7:00pm - Room EEG25, UNSW
8/02/2007	Recent developments in Air Traffic Control	Bob Peake	Joint (IET)	8 Thomas Street, Chatswood
18/02/2007	HF Communications - Field deployable systems	David Burger	IEEE (Comsig)	1:00pm Wyong Jockey Club - Auditorium
22/02/2007	Telecommunications Fraud and Asset Assurance	David Burger	Joint (IEEE)	8 Thomas Street, Chatswood
28/02/2007	RMV Queen Mary 2 - Electronics	John Jeremy	Joint (EA)	Chatswood RSL, 446 Victoria
2/03/2007	IEEE Introduction Briefing to 1st year students	David Burger	IEEE	Lecture Theatre 450 in the EIE Building, http://www.usyd.edu.au
5/03/2007	IEEE NSW SECTION - Meeting		IEEE	(7.00-9.00pm) Seminar Room 1 - Library Gore Hill TAFE
5/03/2007	Joint IEEE/IET/EAust Lecture Program meeting		Joint	(6.00-7.00pm) Seminar Room 1 - Library Gore Hill TAFE
6/03/2007	Woods Hole Oceanographic Institute - Flow Measurements in Oceans	Sandy Williams	IEEE	MIDDAY for 12:15pm start - Lecture Theatre - 570 George St, SYDNEY
8/03/2007	National Electricity Market	Dr Brian Spalding, NEMMCO CEO	EA	8 Thomas Street, Chatswood
12/03/2007	Introduction to High Performance Computing [NO CHARGE, all welcome]	Dr. Joachim Mai, Australian Centre for Advanced Computing and Communications	IEEE Computer Chapter, Open for Joint Members.	1PM to 2PM, Conference Room Level 2, Building E6A (Room # 211), Macquarie University
18/03/2007	Sydney Harbour Bridge 75th Anniversary - Walk [keeping engineers fit program]	www.ourbridge.com.au	EA Heritage	Listed out of special interest, albeit non electrical in nature, Free to Walk over it, \$3 to drive over it(closed on the day), FROM \$169 to walk to the top of it.
22/03/2007	Demand Management - relationship between energy efficiency, greenhouse abatement and peak demand	Paul Myers, EnergyAustralia	Joint (IET)	8 Thomas Street, Chatswood
2/04/2007	IEEE NSW SECTION - Meeting		IEEE	(7.00-9.00pm) Seminar Room 3 - Library Gore Hill TAFE
2/04/2007	Joint IEEE/IET/EAust Lecture Program meeting		Joint	re-scheduled as a Teleconference
2/04/2007	ESA Terahertz Technology	Dr. Peter DeMaagt, European Space Research and Technology Centre	IEEE AP/MTT incl Joint.	CSIRO ICT Centre auditorium, Pembroke Road, MARSFIELD
4/04/2007	TRADE PRACTICES ACT - For Engineers [fees apply]	Sam Ingui, Colin Biggers & Paisley	ACEA	(4:00pm to 6:00pm) Vibe Hotel, 88 Alfred St, MILSONS POINT.
11/04/2007	ANSTO Nuclear Reactor Seminar		EA Illawarra	Contact Engineers Australia Illawarra/Sutherland directly.
12/04/2007	Laser Quantum Dots and Nanowires	Professor Chennupati Jagadish	Joint (IEEE)	8 Thomas Street, Chatswood
7/05/2007	IEEE NSW SECTION - Meeting		IEEE	(7.00-9.00pm) Seminar Room 1 - Library Gore Hill TAFE
7/05/2007	Joint IEEE/IET/EAust Lecture Program meeting		Joint	(6.00-7.00pm) Seminar Room 1 - Library Gore Hill TAFE
10/05/2007	Siemens - Future directions	Mr John G. Chapman	Joint (EA)	8 Thomas Street, Chatswood
15/05/2007	Naming Ceremony for the Vic Morgan HV Laboratory.		Joint	2:00pm, National Measurement Institute, Bradfield Road, Lindfield, NSW 2070 (8)
17/05/2007	Engineering Week Planning Meeting		Joint	8 Thomas Street, Chatswood
24/05/2007	Water for the Parched earth - Electrical & Control Systems.	Paul Gaughan - CH2M HILL	Joint (IET)	8 Thomas Street, Chatswood (60)
4/06/2007	IEEE NSW SECTION - Meeting		IEEE	(7.00-9.00pm) Seminar Room 1 - Library Gore Hill TAFE
4/06/2007	Joint IEEE/IET/EAust Lecture Program meeting		Joint	(5:15pm) Teleconference
14/06/2007	The commercialisation of Photonics technology, case studies	Ian Clarke (Optium Inc)	Joint (IEEE)	8 Thomas Street, Chatswood [-58 attendees]
28/06/2007	Sustainable Energy SOLAR TOWER	Roger Davey	Joint (EA)	8 Thomas Street, Chatswood [- full house !]
2/07/2007	IEEE NSW SECTION - Meeting		IEEE	(7.00-9.00pm) Library Room, Chatswood RSL Club, 446 Victoria.
2/07/2007	Joint IEEE/IET/EAust Lecture Program meeting		Joint	(5:15pm) Teleconference
12/07/2007	Introduction to Safety Engineering	Mr Keerthy Mysore	Joint (IET)	8 Thomas Street, Chatswood
26/07/2007	EEG & BRAINWAVES - Cross-over between Medicine and Electronics. [This is a PRACTICAL SESSION]	Dr Phil King (Medicine) & Assistant	Joint (IEEE)	8 Thomas Street, Chatswood
26/07/2007 - 27/07/2007	Electrical Engineering Practice module 1 - Planning [fees apply]		EEA	Contact vendor.
6/08/2007	IEEE NSW SECTION - Meeting		IEEE	(7.00-9.00pm) Seminar Room 1 - Library Gore Hill TAFE
6/08/2007	Joint IEEE/IET/EAust Lecture Program meeting		Joint	(6.00-7.00pm) Seminar Room 1 - Library Gore Hill TAFE
9/08/2007	The relevance of the National Measurement Institute to engineering, with reference to BIPM.	Barry Inglis	Joint (IET) & EA Metrology Society	8 Thomas Street, Chatswood
9/08/2007	Management of Public Lighting for Councils	Panel of 7.	NextEnergy	Rockdale City Council Building, Conference Room
16/08/2007	35th Anniversary Dinner - IEEE in Australia. [\$40 fee pp applies]	IEEE Life Members Sponsored Function	IEEE	Royal Sydney Yacht Squadron, 33 Peel Street Kirribilli 2061 - On site after hours parking is OK
18/08/2007	ENGINEERING WEEK - Start		Joint	http://www.engineeringweek.org.au/
23/08/2007	Sustainable TRANSPORT, incl EV. Panel Discussion. Sponsorship invited.	Roy Leembruggen, David Killisby, Gary Gladesbrooke, Warren Centre.	Joint (EA)	Maritime Museum, Darling Harbour. 5:30pm evening function.
23/08/2007 - 24/08/2007	Electrical Engineering Practice module 2 - Design Principles [fees apply]		EEA	Contact vendor.
26/08/2007	ASHET: Guided tour of the John Tebbutt Observatory at Windsor and the Linden Observatory		EA Heritage Committee	Meet at: John Tebbutt Observatory, Palmer Street, Windsor. 10.30am \$10.00 for ASHET members, \$15 others
27/08/2007 - 30/08/2007	AusWireless '07 - Broadband and Ultra Broadband. [Fees may apply].		IEEE Comsig	Crowne Plaza Hotel, Sussex St, Darling Harbour
29/08/2007	ERAC Electrical Equipment Review Consultation Forum. RSVP to erac@deir.qld.gov.au at least one week prior.		Electrical Regulatory Authorities Council	9am - 12pm, Lehan Theatre, National Measurement Institute Bradfield Road, Lindfield
29/08/2007 - 30/08/2007	5th Australian Telecommunications Summit. Fees apply		A&CE	Venue: Dockside, Cockle Bay Wharf, Darling Park Sydney
28/08/2006	ENGINEERING WEEK - Complete		Joint	richard.barnes@hyderconsulting.com

30/08/2007 - 31/08/2007	Lightning Protection for Power Systems	Professor Mat Darveniza, University of Queensland	CPD International	Mecure Hotel , Sydney
3/09/2007	IEEE NSW SECTION - Meeting		IEEE	(7:00-9:00pm) Seminar Room 1 - Library Gore Hill TAFE
3/09/2007	Joint IEEE/IET/IEAust Lecture Program meeting		Joint	(6:00-7:00pm) Seminar Room 1 - Library Gore Hill TAFE
12/09/2007	Nanotechnology Seminar		EA Illawarra	Contact Engineers Australia Illawarra/Sutherland directly.
14/09/2007	Energy Efficiency and Demand Management.	Scott Rouse	IEEE (PES)	08:45am ALL DAY. 1st Floor, Sydney Mechanics School of Arts, 280 Pitt Street, SYDNEY (8)
27/09/2007	Disruptive SupplyChain Technology: the role of RFID.	Matthew Henderson (Australian Technology Systems), Peter Single (G2 Microsystems)	Joint (EA)	8 Thomas Street, Chatswood (30)
8/10/2007	IEEE NSW SECTION - Meeting		IEEE	(7:00-9:00pm) Seminar Room 1 - Library Gore Hill TAFE
8/10/2007	Joint IEEE/IET/IEAust Lecture Program meeting		Joint	Cancelled.
9/10/2007	Recent Advances in HVDC transmission Technology.	Professor Vassilios Agelidis, The University of Sydney.	Joint EnergyAustralia and IEEE (PES)	LUNCHTIME Lecture, (EnergyAustralia) 570 George St, Sydney (12:15 for 12:30 start - 2:00pm)
10/10/2007	Sputnik: 50th anniversary	Kerrie Dougherty	Powerhouse	12:30pm to 1:30pm, Powerhouse Mudeum, 500 Harris St, ULTIMO
11/10/2007	An introduction to Bio-Containment Facilities in Australia	Ryszard Knopf, Scientific Interiors	Joint (IET) and IEEE (GOLD)	LUNCHTIME Lecture, (EnergyAustralia) 570 George St, Sydney (12:15 for 12:30 start - 2:00pm)
16/10/2007 - 19/10/2007	ISCIT 2007, 7th symposium on Communications and Information Technologies. [Fees may apply].	http://www.elec.uow.edu.au/ISCIT2007/	IEEE Comsig	Crown Plaza Hotel, Darling Harbour.
24/10/2007	Energy Futures: Learning from the past	Debbie Rudder	Powerhouse	12:30pm to 1:30pm, Powerhouse Mudeum, 500 Harris St, ULTIMO
25/10/2007	Soil De-Contamination using ultrasonics	Dr Tony Collings, CSIRO	Joint (IET)	8 Thomas Street, Chatswood
26/10/2007	The University of Sydney, Faculty of Engineering and IT. Research Conversazione.		USYD	Midday to 5:00pm
25/10/2007 - 26/10/2007	Electrical Engineering Practice module 4 - Earthing Systems [fees apply]		EEA	Contact Vendor.
29/10/2007	Hybrid Electric Vehicles and Fuel Cell Systems	Dr. Kaushik Rajashekara, Propulsion Systems Engineering, Rolls-Royce, USA	IEEE DL	2-5pm; Seminar, UNSW
31/10/2007	Sydney's Pubs: Drinkers geography lesson.	Charles Pickett	Powerhouse (IEEE GOLD)	12:30pm to 1:30pm, Powerhouse Mudeum, 500 Harris St, ULTIMO
30/10/2007	Hybrid Electric and Fuel Cell Vehicle Architectures and SOFCs for On-board Power Generation	Dr. Kaushik Rajashekara, Propulsion Systems Engineering, Rolls-Royce, USA	IEEE DL	University of Newcastle
5/11/2007	IEEE NSW SECTION - Meeting		IEEE	(7:00-9:00pm) Seminar Room 1 - Library Gore Hill TAFE
5/11/2007	Joint IEEE/IET/IEAust Lecture Program meeting		Joint	Cancelled.
8/11/2007	Swiss origins of very low-power integrated circuits	Eric A. Vittoz, IEEE-SSC Distinguished Lecturer	IEEE LEOS	6:00pm to 7:00pm - LT450, Level 4, Building J03, School of Electrical and Information Engineering, University of Sydney (enter via Maze Crescent)
8/11/2007	25kV Railway Electrification Systems	Jerry Jirasek, DOWNER EDI - Rail	Joint (EA)	8 Thomas Street, Chatswood
11/11/2007 to 14/11/2007	Energy 21C Conference, Energy Transmission and Distribution. [Fees may apply].	www.energy21c.com.au	EnergyAustralia	Sydney Convention and Exhibition Centre
13/11/2007	Terahertz Technology in Outer and Inner Space	Dr. Peter H. Siegel California Institute of Technology Jet Propulsion Laboratory	IEEE AP/MTT	Please contact Ananda directly.
22/11/2007	VLSI Photonics: Visions, Challenges and Progress	El-Hang Lee, IEEE-LEOS Distinguished Lecturer	IEEE LEOS	1:00pm to 2:00pm.. Room 498, Building C5C, Macquarie University. For directions, please see the map at http://www.ofm.mq.edu.au/maps_campus.htm Building C5C is physically in the centre of Campus.
28/11/2007	History of the WRESAT Project	Kerrie Dougherty	Powerhouse	12:30pm to 1:30pm, Powerhouse Mudeum, 500 Harris St, ULTIMO
30/11/2007	LEOS/SSC/CAS Joint Chapter Annual General Meeting		IEEE LEOS	Boronia Grove Function Rooms, EPPING. (6:00pm 7:00pm)
30/11/2007	IEEE NSW AGM / DINNER / Presentations		IEEE	Boronia Grove Function Rooms, EPPING. (6:00pm to 10:00pm)
4/12/2007 - 6/12/2007	International Global Navigation Satellite Systems Conference 2007. (IGNSS) [fees may apply]		IEEE Cosponsor	University of New South Wales, Kensington.
13/12/2007	Neuromorphic Engineering / Silicon Retina	Tobi Delbruck, IEEE-CAS Distinguished Lecturer	IEEE CAS	6:00pm to 7:00pm - LT450, Level 4, Building J03, School of Electrical and Information Engineering, University of Sydney (enter via Maze Crescent).



IEEE New South Wales Section

C/- AUSTRALIAN PROFESSIONAL CENTRE
PO Box 576
CROWS NEST NSW 1585
Tel: 61 (0)2 94318600 Fax: 61 (0)2 94318677

Section web page: <http://ewh.ieee.org/r10/nsw>
Main IEEE web: <http://www.ieee.org>

ARBN 078 576 495
ABN 34 078 576 495

4 June 2007.

SUBJECT: IEEE NSW – Education Society Chapter

This letter is to formally confirm the following office bearers have been nominated and accepted by the IEEE NSW Education Society Chapter in the following roles:

Chair:
Mark J.W. Lee
Adjunct Lecturer
School of Education
Charles Sturt University
Locked Bag 588
Wagga Wagga, NSW 2678

Vice-Chair:
Dr Jun Shen
School of Information Systems and Technology
Faculty of Informatics
University of Wollongong
Wollongong, NSW 2522

Secretary:
Mr Anthony Chan
School of Computing and Mathematics
Faculty of Business
Locked Bag 675
Charles Sturt University
Wagga Wagga, NSW 2678

Involvement in the IEEE Section and Chapters is on a purely voluntary basis, and as office bearers, it allows the members to arrange speaking or lecture events, workshops or presentations and the like to promote the speciality area of the Chapter.

Yours faithfully,
IEEE NSW SECTION – Chair 2007

A handwritten signature in black ink, appearing to read 'David', written in a cursive style.

David E Burger
Telephone: 0414 328877
e-mail: k3hz@ieee.org

Phone +1 732 562 5504
Fax +1 732 463 3657
Email c.jankowski@ieee.org

Cecelia Jankowski
Managing Director
Regional Activities

14 May 2007

Mark Lee
1802/281 Elizabeth Street
Sydney, New South Wales 2000
Australia

Dear Mr. Lee:

Congratulations! On behalf of the IEEE Regional Activities Vice President, Pedro Ray, and IEEE Technical Activities Vice President, Peter Staecker, it is a pleasure to inform you that the requirements of the RAB Operations Manual have been met, and IEEE New South Wales Section – Education Society Chapter - has been formed. The effective date of this Chapter formation is 10 May 2007.

At this time, we are recording you as the Chapter Chair. When an election has been held, please report the name and member number of the new Chapter Chair to the IEEE using the online Officer Confirmation form at <http://www.ieee.org/scsreports>. Valuable information regarding IEEE Society Chapters can be found at www.ieee.org/chapters. If we can assist you in any way in the planning of the Chapter activities, please let us know.

We extend our best wishes for the successful operation of this Chapter.

Sincerely,

Cecelia Jankowski
Managing Director
Regional Activities

cc: P. Ray – Regional Activities Vice President
P. Staecker – Technical Activities Vice President
J. Mazierska - Region 10 Director
D. Burger – New South Wales Section Chair
J. Hughes - Education Society President
R. Reilly – Education Society Chapter Activities Chair
M. Ward-Callan - Technical Activities Managing Director

IEEE Region 10 Conference – 2007



Trip Report by: David E Burger (k3hz@ieee.org)
IEEE New South Wales Section – Chair 2007

Report to: IEEE NSW Members and committee

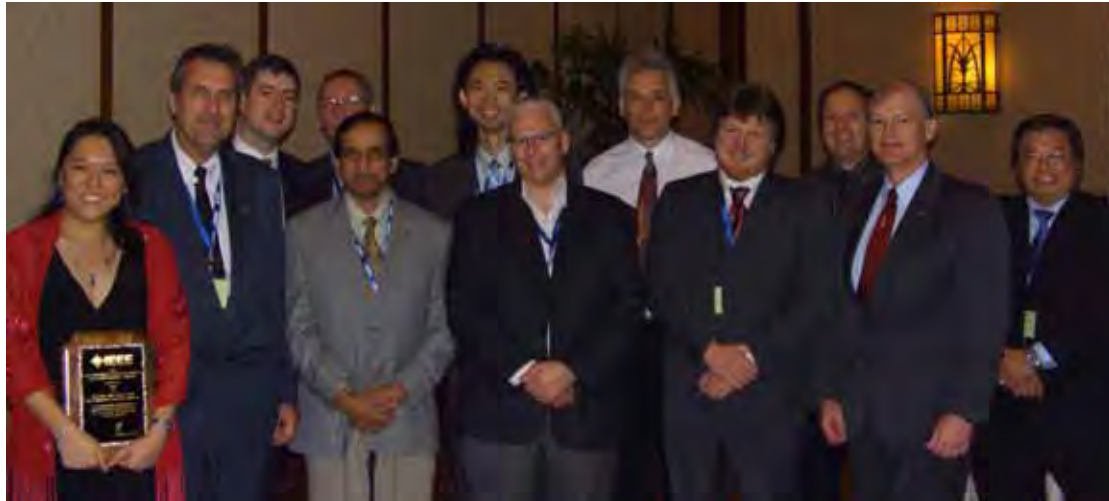
Venue: Nexus Resort and Rasa Ria Resort
North Kota Kinabalu,
East Malaysia

Date: 24th and 25th March 2007

23rd March 2007 (Friday)

19:15 Australia Council Meeting, Rasa Ria Resort conference room 5.

- Budget approval discussions with the addition of \$1,000 toward AC Student Branch Competition prize and a Student paper prize of \$500.
- The AC have adopted a revolving Student branch review process, with NSW managing the student branch review in 2007.
- AC is looking for a website support person to get the AC website up to date.
- National IT Chapter start-up is hosted by the SA Section.



From Left: Helene Fung, Keith Kikkert, Dylan Radcliffe, Arka Dadej, Zia Ahmed, Douglas Chai, Andrew Fox, David Burger, Vaughan Clarkson, Graham Woods, Michael Evans, Lance Fung.

24th March 2007 (Saturday)

MC – Professor Mazuki bin Khalid

- 0800-0830 Registration and Arrivals of Delegates
0830-0832 Call to Order by R10 Director
Janina Mazierska
0832-0850 Roll Call by R10 Secretary
0850-0900 Review and Approval of Agenda
0900-0915 Welcome Address and VISION R10 Director
Janina Mazierska
- Drive to boost the number of senior members
 - 67,422 members in R10 at December 2006.



- 0915-0930 IEEE Organisation: by IEEE President-Elect,
Lewis Terman
- Opportunities exist for IEEE with Internet community builders, virtual reality presence and possibly games space presence.
 - Employer interception of IEEE packaged products, where employers are providing access to Xplore etc..



0930-0940 IEEE TAB: by Vice President TAB,
Peter Staecker

- Boost non-USA volunteer participation



0940-0950 IEEE RAB by Vice President RAB,
Pedro Ray

- Boost non-USA volunteer participation
- New ieee.tv viewer with full language support.
- IEEE now offering TV program production funding.



0950-1000 IEEE Foundation by Chair of IEEE Foundation,
Richard Gowen

- Outside the IEEE corporate structure and a separate corporation
- Looks for fund raising
- Assists with projects
- Awards are the largest use of funding
- Educational program
- History milestones recognition program. Association with Lance Fung on the R10 history project.
- R10 has only received 4 grants in the period 2003 to 2006, this included a virtual museum in Thailand.



1000-1010 Meeting Rules

Aki Nishihara

- Distribution of a 3 page rule sheet.

1010-1030 Coffee Break & Posters by R10 SSVR
awarded Sections



REPORTS

1030-1040 Report on Progress of 2008 Section
Congress Lewis Terman

- Scheduled in Canada.

- 1040-1050 Report by IEEE R10 Past Director
Seiichi Takeuchi
- 1050-1100 Approval of Minutes of the 2006 R10 Meeting
- 1100-1110 Report on the R10 EXCOM Meeting in Perth,
Australia, 5-6.1.2007
- A total of 8 new sections in R10. Six located in China, one in Japan and one in Vietnam.



- 1110-1125 Presentation of 2007 Budget by R10 Treasurer
Takatoshi Minami



- 1125-1215 Presentation of Reports by Excom Members
Student Activities Mini S.
Thomas/Kazuyuki Sudo
- Student Congress report for 2006 in Changmai
 - Biannual student meetings
 - E-groups at a section level
 - Branch council congress, Japan/India at a council level and Hyderabad at a Section level.
 - Alumni program – April 2007 announcement.



Membership Development

Tan Tieniu

- Publicity and recruitment tours planned
- Promote more conferences, more sections
- Membership fee packaging 1year, 2 year etc..

Awards and Recognition

Hirohisa Gambe

- R10 volunteer award – 30 nov 2007 deadline
- Nomination from a Section (not individuals)
- 2006 inaugural R10 GOLD award – Ms Helene Fung (WA Section)
- 2006 RAB GOLD award – Ms Helene Fung (WA Section)
- R10 GOLD award nominations due 31st August 2007.

Educational Activities

Norman Mariun

- Pre-college initiatives
- Teacher in-service program
- Washington Accord participation drive for more countries in the R10 area.
- No EAB awards have been issued in R10 !!!
- R10 EAC will consider proposals – due 1 October 2007.

Regional GOLD report

Yasuharu Ohgoe

- GOLD Congress report for 2006.
- Web promotion
- 2007 GOLD & WiE Newsletter.
- Academic Job Portal and Scholarship initiatives.



1215-1230 Group Photo- Session

1230-1330 LUNCH

1330-1420 Presentation of Reports by R10 Excom Members

Life Member Coordinator

Graeme Gwilliam

ByLaws and Operational Manuals

Akinori Nishihara

- Available on-line

Regional Conference

Lawrence Wong

- Conference website support
- Events coordination Lawrence Wong (l.wong@ieee.org)
- 2012 TENCON opportunity – should have a Section Champion.
- Communicate local conferences to the local Section(s)
- A “Chapter Promotion Operation Committee” is now being promoted (requested ?) to Sections.

Section Chapter Support and Regional Chapter

Miki Yamamoto

- Getting chapters and section re-started
- Active chapters should maintain at least 10 members

Women in Engineering

Tuptim Angkaew

- Retention of women members
- Enhance career advancement
- Big issue with USD\$25 membership fees required to join IEEE WiE. This appears counter to similar affinity groups like GOLD and LIFE. Tabled for review with 2008 candidates (bylaw I-306.22).

1420 –1510 Presentation of Reports by Excom Members

Technical Activities

Mahendra Shah

- R10 colloquium 15 April 2007. (mmshah@ieee.org)

Strategic Planning/Leadership Training

Michael Evans

- Related to the regional strategic plan.
- Looking for strategic projects.

Electronic Communications and Newsletter
Ahmed

- Web updates
- Low graphic load desired for low speed links
- R10 Newsletter deadlines 31 May, 31 Aug and 15 Nov.

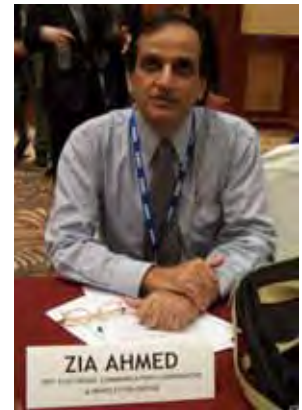
Industry Liaison
Isao Shirakawa

- David Skellern for Australia
- IEEE R10 milestone Award – same provisions as IEEE milestone award, but relaxed age of >20 years.
- Academia – Industry Partnership award.

Special Projects

- Section congress
- Vietnam Section
- Historic website award, and 125 years of IEEE (in 2009) drive for R10 section to begin to assemble historical material. NSW material shown as an example !

Zia



Lance Fung

1510-1520 Break
1520-1535 Presentation of Reports by Excom Members
Recognized Educational Programs
Robert Hodgson
R10 Advisory Committee
Janina Mazierska

1535-1545 Summary on Sections' Reporting to HQ
Fanny Su
1545-1630 R10 Forum and Discussion
Janina Mazierska

1800-2100 FORMAL DINNER BANQUET and Cultural Show
1930 Presentation of Awards and Anniversary Banners

- Karachi Section is 25 years old, banner presented by Pedro Ray.
- 2006 inaugural R10 GOLD award – Ms Helene Fung (WA Section)
- 2006 RAB GOLD award – Ms Helene Fung (WA Section)
- Large and small Section awards issued.

2000-2030 Addresses by President-Elect candidates 2008,
John Vig
Marc Apter
Pedro Ray

- Questions for the candidates included, adoption of metric standards, i.e. A4 paper sizes for publications, making some of IEEE Explore free to members, Making IEEE less US centric.



25th March 2007 (Sunday) Executive Agenda and Workshop

0845 Call to Order
0850-0910 Rectification of 2007 Budget
0910-0920 Rectification of 2007 Programs

T. Minami
M. Khalid

0920-0930 Change to Bylaws Janina Mazierska
○ R10 by-law update to change location names into alphabetical order.

0930-0950 IEEE in China, Formation of China Council
M. Zhou

- IEEE China Council formation endorsed by the R10 collective.

0950-1000 Report on TENCON 2006 Hong Kong Section

- TENCON 2006 – 506 participants, about half were students.

1000-1010 Presentation on TENCON 2007 Taipei/Tainan
Section

1010-1020 Presentation on TENCON 2008 Hyderabad
Section

Presentation on TENCON 2010 Fukuoka Section

1020-1030 Break

1030-1230 LEADERSHIP TRAINING WORKSHOP
“How to Make Your Section an Award Winning One”

- Two year group exercise
- Workshop of concerns and issues
- Break into 8 groups and compile issues register
- Review of issues raised next R10 meeting in 2008..

1230-1240 New Business

- IEEE funded model for certifications, starting with Communications Society.
- Develop an exam
- Focus groups
- Certification Criteria in wireless engineering.
- IEEE CONCENTRATION banking program launched in R10. on-line statements, simple L50 entry, no copies need be attached.

1240 Adjournment of R10 Annual Meeting

1240 -1330 LUNCH

1330 -1615 Wireless Volunteers Session -

Celia Desmond Communication Society

- WCET Certification discussion regarding knowledge and task proficiencies for a proposed WCET.
- Apparent that WCET means many different things to many people under the ‘wireless’ umbrella, especially when focuses on the views of broadcasting, WAN, wireless theory, academic, practitioners, defence and management.
- Detailed discussion paper showed specifics, but WCET needs a strategic objective analysis to identify the certification needs and/or specialty areas.



1655-1725 Tour of Universiti
Malaysia Sabah Kota Kinabalu

- Very impressive implementation with good long term strategic planning evident.
- Tour of the University aquarium facility and museum.

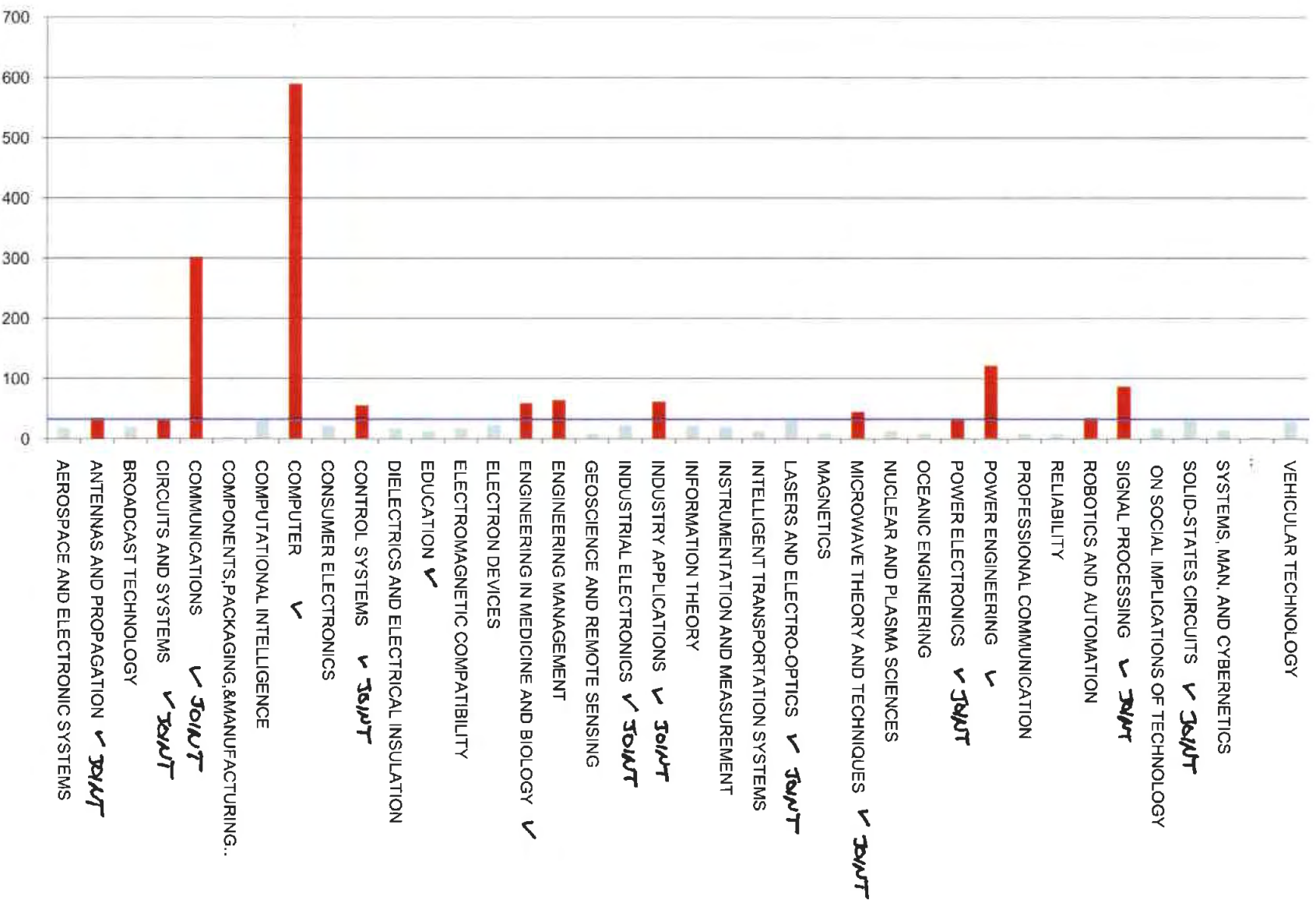


1800 Dinner at 'Kampung
Nelayan' Seafood Restaurant Kota
Kinabalu

- An large open air seafood eating house right on the river at Tun Fuad Stephens Park precinct at Bukit Padang, complimented by a local cultural dance troupe and blow gun demonstrations.



January 2007 Profile.



New South Wales Section

SABAH

LEGEND

-  Main Town
-  Town
-  Airport
-  Parks & Forests Reserve
-  Mountain
-  Diving spot
-  Road
-  Rail Track



NOTE: MAP NOT TO SCALE

POSITION & ROLE		NAME	
Regional Director (2007 - 2008)		Janina	Mazierska
Past Regional Director (2007 - 2008)		Seiichi	Takeuchi
Director Elect (2007 - 2008)		Yong Jin	Park
Secretary (2007)		Marzuki Bin	Khalid
Treasurer (2007)		Takatoshi	Minami
Section / Chapter and Regional Chapter Coordinator (2007)		Miki	Yamamoto
Educational Activities Coordinator (2007)		Norman	Mariun
Recognized Education Program Coordinator (2007)		Robert M	Hodgson
Membership Development Coordinator (2007)		Tieniu	Tan
Regional Conference Coordinator (2007)		Lawrence (Wai Choong)	Wong
Student Activities Coordinator (2007)		Mini Shaji	Thomas
Strategic Planning Coordinator (2007)		Michael	Evans
Technical Activities Coordinator (2007)		Mahendra M	Shah
Awards & Recognition Committee Chair (2007)		Hirohisa	Gambe
Women In Engineering Representative (2007)		Tuptim	Angkaew
Life Member Coordinator (2007)		Graeme	Gwilliam
Industry Liaison Coordinator (2007)		Isao	Shirakawa
Electronic Communication Coordinator and Newsletter Editor (2007)		Zia	Ahmed
ByLaws / Operations Manual Coordinator (2007)		Akinori	Nishihara
Regional GOLD Program Representative (2007)		Yasuharu	Ohgoe
Regional Student Representative (2007)		Gopal	Balakrishnan
Regional Student Representative (2005-06)		Kazuyuki	Sudoh
Special Project Coordinator (2007)		Lance (Chun Che)	Fung
Advisory Committee		Teck Seng	Low
Advisory Committee		Jung Uck	Seo
AUSTRALIA CAPITAL TERRITORY (AUSC)	Chair	Andrew	Fox
BANGALORE	Chair	Ashok Kumar	Tripathy
BANGLADESH	Chair	D M Khosru	Quazi
BEIJING	Chair	Tieniu	Tan
BOMBAY (IC)	Secretary	Anthony	Lobo
CALCUTTA (IC)	Vice Chair	Kalyan Kumar	Mallik
CHANGWON	Chair	Panbong	Ha
CHENGDU	Chair	Pingzhi	Fan
DAEJEON	Chair	Chang Bong	Kim
DAEJEON	Secretary	Bongsue	Suh
DELHI (IC)	Chair	Ram Gopal	Gupta
FUKUOKA (JC)	Chair	Keijiro	Araki
GUJARAT (IC)	Chair	Deepak	Mathur
HARBIN	-	Qun	Wu
HIROSHIMA (JC)	Vice Chair	Masashi	Hotta
HONG KONG	Chair	David K	Cheng
HYDERABAD (IC)	Chair	Srinivas B.	Mandalika
INDONESIA	Vice Chair	Arief Hamdani	Gunawan
INDONESIA	-	Wahidin	Wahab
ISLAMABAD	Vice Chair	Saleem	Tariq
KANSAI (JC)	Awards Chair	Tohru	Kikuno
KANSAI (JC)	-	Atsuhisa	Inoue
KARACHI	Chair	Sheikh Imran ul	Haque
KERALA (IC)	Chair	Amarnath	Raja
KHARAGPUR (IC)	Chair	Krishna Kishore	Nudurupati
KWANGJU	Chair	Kiseon	Kim
KWANGJU	-	Jeong A	Lee
LAHORE	Chair	Mohammad Ali	Maud
MACAU	Secretary	Chi Tin	Hon
MADRAS (IC)	Chair	Ponnaivaikko	Murugesan
MALAYSIA	AGM 24 Feb	Mohd Nasir	Taib
NAGOYA (JC)	Chair	Hitoshi	Okubo

POSITION & ROLE		NAME	
NANJING	Chair	Zhenya	He
NEW SOUTH WALES (AUSC)	Chair	David E	Burger
NEW ZEALAND NORTH (NZC)	Chair	Michael	Neve
NEW ZEALAND SOUTH (NZC)	Chair	Andrew	Bainbridge-Smith
NORTH QUEENSLAND (AUSC)	Chair	Graham	Woods
QUEENSLAND (AUSC)	Chair	Vaughan	Clarkson
QUEENSLAND (AUSC)	Vice Chair	Zhao Yang	Dong
REPUBLIC OF PHILIPPINES	Chair	Joel Joseph Jr.	Marciano
SAPPORO (JC)	Chair	Hirofumi	Sanada
SENDAI (JC)	EXCOM	Kiyoshi	Nakagawa
SEOUL	Chair	Kuk Jin	Chun
SHANGHAI	Chair	Junfa	Mao
SHANGHAI	Secretary	Chao	Wang
SHIKOKU (JC)	Chair	Shigeaki	Ogose
SHIN-ETSU (JC)	Secretary	Takashi	Sato
SINGAPORE	Chair	Lalit	Goel
SINGAPORE	Vice Chair	D Mahinda	Vilathgamuwa
SOUTH AUSTRALIA (AUSC)	Chair	Arkadiusz	Dadej
SRI LANKA	Vice Chair	Prasad	Wimalaratne
TAEGU	Chair	Duk Gyoo	Kim
TAINAN	Chair	Jhing-Fa	Wang
TAIPEI	Chair	Ruey Beei	Wu
THAILAND	Chair	Siri	Tandhavatana
TOKYO (JC)	Secretary	Tsutomu	Sugawara
UTTAR PRADESH (IC)	Chair	Shyama Prasad	Das
VICTORIAN (AUSC)	Chair	Dylan	Radcliffe
VIETNAM	Rep	Cao Hoang	Tru
WESTERN AUSTRALIA (AUSC)	Chair	Douglas Kian Wu	Chai
WUHAN	Chair	James, Zhiping	Zhou
XIAN	Chair	Jianguo	Huang
AUSTRALIA COUNCIL (AUSC)	Chair	Cornelis Keith	Kikkert
INDIA COUNCIL (IC)	Chair	N. Thankappan	Nair
JAPAN COUNCIL (JC)	Treasurer	Hideki	Hashimoto
NEW ZEALAND COUNCIL (NZC)	Chair	Grant	Covic
IEEE ASIA PACIFIC OFFICE		Fanny	Su
IEEE ASIA PACIFIC OFFICE		Serena	Dhing
Representative of the China Council Preparatory Committee		Mengqi	Zhou
2006 R10 Outstanding Volunteer Award (Thailand Section Secretary)		Ekachai	Leelarasmee
2006 R10 GOLD Award & RAB GOLD Achievement Award (Western Australia)		Helene	Fung
Coordinator for the Leadership Training		Yat Wing	Liu
2007 IEEE President- Elect		Lewis	Terman
2007 Director & Vice President, Regional Activities /		Pedro	Ray
President-Elect Candidate 2008		Marc	Apter
President-Elect Candidate 2008		John	Vig
President of IEEE Foundation		Richard	Gowen
2007 IEEE Director, Division X		William A.	Gruver
2007 IEEE Vice-President, Technical Activities		Peter	Staecker
2007 IEEE Director and Secretary		Celia L.	Desmond

**David
Burger/energyAustralia/AU**
30/11/2007 14:42

To <Trevor.Bird@csiro.au>@EASMTF, "Bruce Poon"
<adsphere@optusnet.com.au>, "Ananda Sanagavarapu"
<ananda@eng.uts.edu.au>, "Carolyn McGregor"
cc "AC-ACT: Andrew Fox" <andrew.fox@ieee.org>,
"AC-Vic:Dylan Radcliffe" <dylanr@ieee.org>, "AC-WA:
Douglas Chai" <d.chai@ecu.edu.au>, "AC-Sec:Geoffrey
bcc
Subject VALE - James (Jim) Vasseleu;

Dear all,

It is with genuine sadness to report that Mr Jim Vasseleu passed away this morning, the eve of our 2007 NSW Section AGM.

Further details will come to hand shortly regarding his funeral arrangements, and when known, I am happy to pass these directly to you, or check local (Sydney, Australia) newspapers for details.

Jim was the founding champion for the very initial IEEE Australian Section back in 1972, with mentoring from the then New Zealand Section as well as the Italian Section. Since then he had maintained an active role in the IEEE New South Wales Section committee right up until a few months ago. I have assembled a concise obituary for Jim, attached below.

James J. (Jim) Vasseleu

(1930-2007)

Jim had received an Electrical Engineering Diploma, Higher Trades Certificate (Electrical) and Electricians licence, Management Certificate. He was accredited as a NSW Government Electrical Engineer in 1957.

Jim maintained membership of Professional Associations, and was a MIEEE (1969), Senior Member IEEE(1975), Life SMIEEE(2000), Fellow IEAust, Fellow IREE, CPEng, Associate Fellow Australian Institute of Management. NPER until 2004. He was a Member Society of Engineers London (now IET).

Jim had received the following Awards/Achievements. Electrical Engineering apprenticeship - Australian General Electric, Design engineer - Johnson & Philips / Crompton Parkinson, Australasian sales manager - Federal Pacific Electric (Aust), EE Di-rector - Fowell Mansfield Jarvis & Maclurcan, Marketing manager - Power Electronics Pty Ltd, Senior Electrical Engineer Leighton Irwin and then self employed consulting engineer.

Jim was the founder IEEE Australia Section in August 1972, Australia Section Chair 1972-1973, NSW Section chair 1985-1987. R10 Director 1977~1978, Board Member IEEE Long range Planning Committee 1977~1978, IEEE Centennial Medal 1984, Founder IEEE Australia Council 1986, R10 Membership development Chair 1989~1991, IEEE Larry K Wilson Transnational Award 1994 and IEEE Millennium Medal recipient in 2000.

Your faithfully,
IEEE New South Wales Section - Chair 2007

David E. Burger

T. +61 (0)2 9269 4387

F. +61 (0)2 9269 4206

M. +61 (0)414 328877

dburger@energy.com.au / k3hz@ieee.org



The Institute of Electrical and Electronics Engineers, Inc.

Secretariat:

AUSTRALIAN PROFESSIONAL CENTRE
PO Box 576
CROWS NEST NSW 1585 Australia
Tel: 61 (0)2 94318600 Fax: 61 (0)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

Volume 30 Issue 1

March 2007

Contents

Item		Page
	<i>Editorial</i>	1
1.	<i>Messages From The Chair</i>	1
2.	<i>News In Brief</i>	2
3.	<i>Chapter News</i>	6
4.	<i>Technology & History</i>	7
5.	<i>Technical Meetings & Conferences</i>	10
6.	<i>Continue to Receive CIRCUIT by Post</i>	12



Eddie Fong eddiefong@ieee.org
Circuit Newsletter Editor
NSW Section

Editorial

It is amazing how the world has changed in the last few years.

In wireless telecommunications, we have the good old GSM and then the 3GSM. In television broadcasting, we have good old FM analogue transmission and then, the digital transmission. In the automobile industry, we have the good old fossil fuel combustion engine car and then the gas fuel or electric engine cars, and so on that we have developed and made a lot of innovative and creative technologies and products with the hope of having a better lifestyle.

With all these engineering developments to the world, the environment has also evolved with these changes. Floods have severely hit many parts of the world - places like Malaysia, Indonesia, USA etc. Snow or hail storm happens on a summer day. Earth quakes and tsunamis happen more frequently than before. All these natural disasters are the challenges for you and I as the professional engineers in developing tools and means to analyse and predict these disasters in providing early warnings to those that will be affected by the disaster to stay alive and survive.

We need ideas and creativity in the hope that all these can be put to good use to save lives and improve living conditions for our next generation. So, I encourage all of you to send in your ideas and creative solutions to share with other professionals in the hope for a better world.

1. Messages From The Chair

2007 marks 35 years of active IEEE involvement in Australia - as well as marking the 120th anniversary of IEEE itself!

Greetings to all of you and a big thank you to the outgoing committee too. This year it is planned to get the NSW Section into overdrive and tackle some of the tougher jobs that have been lingering in our in-tray for the past few years. These include championing a new affinity group titled "Women in Engineering" (WIE). While still very early days, we welcome Dr Kim Chin who has offered to assist in the startup of this group.

Another project with a focus on promoting "Engineering & Technology to Schools" will also be championed with both web and CD media. This year, we are also sponsoring 6 lectures in the joint institutions lecture calendar - with some very interesting material already scheduled.

Promoting chapter activities and mentoring the many student chapters back into life (e.g. USYD, CSU etc). If you can assist in any way, the Section Committee will get behind you, as that is why we are here.

If that isn't enough, there is a need to engage a Webmaster to corral the material and changes as they take place throughout the year. The only formal prerequisite is to be a member of the IEEE - and maybe of course some web skills you would like to exhibit. I'd like to extend the sincerest thanks to Mr Rob Menegon who is planning to move overseas early

May 2007. Rob has kindly maintained our website over the past two and half years, including sometimes updates from sporting events overseas. Our website also needs an overhaul to conform to the new IEEE look and feel.

Each year a student congress is held in Region 10, and while we may have missed bidding for the 2008 event, we will certainly be able to target and lobby for the 2009 event once we get our GOLD and WIE Affinity groups running. We also welcome Mark Gordon to our GOLD committee, and the whole section committee will be getting behind this to secure some social/speaking functions into our calendar of events. With three members of Committee qualifying for the GOLD program, this marks a first for NSW, and we look forward to more engaging activities for recent graduate members.

Bringing some fun and interesting activities to the fore is also a key objective this year, and while they will need committee review, some ideas include a "IEEE NSW Industry Leadership Award", "A Mind storms Robotics' Competition", and some other ideas you feel like championing.

We welcome your participation, attendance and your contributions to this year events.



David Burger k3hz@ieee.org
Chair
NSW Section

2. News In Brief

2.1. 2007 IEEE NSW Section Executive Committee

Chair	David Burger
Vice Chair	David Tien
Treasurer	Rob Curtis
Secretary	Antony Zaglas
Circuit Editor	Eddie Fong
Fellow Search	Walter Lachs
Membership Development	Bruce Poon
Professional Activities	Graham Gwilliam

Educational Activities	Kim Chin
Student Activities	Mark Gordon
GOLD	Mark Gordon
Awards and Recognition	Jim Vasseleu
Life Member Activities	John Robinson
Nominations	
Chair	Graeme Gwilliam
Committee	Jim Vasseleu
Committee	Bruce Poon
Historian	Ramutis Zakarevicius
Webmaster	Rob Menegon
Committee	Karu Essella

2.2. 2007 IEEE NSW Section Chapter Chairs

AP/MTT	Ananda Sanagavarapu
LEOS/C&S/SSC	Graham Town
Communications & Signal Processing	Sam Reisenfeld
Computer	Vacant - (TBA)
EMBS	Caroline McGregor
PEL/IAS/IE	Danny Soetanto
Power Engineering	Antony Zaglas

2.3. IEEE NSW Section Web Master Wanted

As Rob will be overseas from April 07, we are currently looking for an IEEE member to be the Web Master in taking care of the IEEE NSW Section Web site and its contents. Interested parties please contact David Burger by email k3hz@ieee.org or mobile 0414328877.

2.4. Invitation for IEEE NSW Section Computer Chapter Chair

If you are a member of the Computer Chapter and would like to be the Chapter Chair, the please contact direct to the Nominations Chair, Graeme Gwilliam

2.5. Nominations for Elected Officers in NSW 2008

This is a call for those wishing to nominate for any elected office in the New South Wales Section for 2008. Election is for a 1 year term, (casual vacancies notwithstanding) with the possibility of re-election for a further 1 year term. Occupancy of an elected office for longer than a 2 year continuous term requires appropriate approval.

The Section elected offices are Chair, Vice Chair, Secretary and Treasurer. Chapter Chairs are also elected, however Chapters have the freedom to make their own local arrangements provided the RAB requirements are met. One requirement is that, ideally, at least two names be placed on the election paper for each position.

Nominations are to be sent to Graeme Gwilliam (gb.gwilliam@ieee.org) by the end of April 2007. Whilst 'seconded' nominations are preferable, self nominations will be accepted.

Those nominees so wishing can have personal profiles included in the July edition of CIRCUIT. The details of the election processes will be advised later in the year.



Graeme Gwilliam gb.gwilliam@ieee.org.
Chair
Nominations Committee, NSW Section

2.6. Former IEEE President

1974 IEEE President John Guarrera died on 7 December in El Cajon, Calif., at the age of 82. For more information, go to <http://www.ieee.org/web/aboutus/briefs.html#Guarrera>

2.7. Former IEEE Executive Director

Dan Senese, who served as executive director of IEEE from 1995 to 2004, passed away on 6 January 2007 after a brief illness. For more information, visit <http://www.ieee.org/web/aboutus/briefs.html#senese>

2.8. Student Branch Event

The Institute wants to hear about interesting IEEE

student branch events taking place this year. If your branch is holding a robotics competition, teaching youngsters about technology, holding a student congress, planning a plant tour, coordinating a career fair, or other event, send the details to [<mailto:institute@ieee.org>](mailto:institute@ieee.org)

2.9. IEEE Spectrum Online Rolls Out New Tech Alert

IEEE Spectrum Online has created a new Tech Alert for both members and non-members who want to receive groundbreaking news on technology and science. The alert features exclusive online interviews, articles, podcasts, and Web events with leading technology innovators and is e-mailed biweekly in an html or plain-text format. Sign up now at <http://www.spectrum.ieee.org/industryfocus>

2.10. Recognize Your Achievement

Has your company or a volunteer organization recognized you with a promotion, appointment, or award?

We publish the names of members who've received such recognitions. Send your name and a brief description of your accomplishment to the editor eddiefong@ieee.org

2.11. MyIEEE Adds New Features

The IEEE's membership portal, myIEEE, has just updated its career development features. From the Profession Desktop, members can now get listings from the IEEE Job Site, which is updated daily. New modules link members to IEEE's Mentoring Connection site and IEEE-USA's Career Navigator site, where they can get career advice.

2.12. Fellow Nominations for 2008

Time Is Running out for 2008 Fellow Nominations. The deadline for nominations for the IEEE Fellow class of 2008 is 1 March 2007. The rank of IEEE Fellow is the institute's highest member grade, bestowed on senior members who have contributed "to the advancement or application of engineering, science, and technology".

2.13. Welcome To Our New Members And Upgrade Members

From Oct 2006 to Jan 2007, we have the following new members or newly upgraded members:

Life Member Grade

1. MICHAEL KASSLER
2. ROGER F EVANS
3. ALBERT F SORRELL

Fellow Member Grade

4. ABBAS JAMALIPOUR
5. DAVID J SKELLERN

Senior Member Grade

1. ANTHONY G PLACE
2. DAVID S TAUBMAN
3. IAN E BOYD
4. STEPHANIE BOYD
5. CAROLYN P MCGREGOR
6. JOHN D BUNTON

Member Grade

1. PRATIK DAS
2. BRADLEY J GAY
3. SANJIB BISWAS
4. LI ZHENG
5. FEI XIN
6. LEI SHANG
7. KIT-MING T CHEE
8. ALBERT Y CHUNG
9. ZHONGWEI TANG
10. JUN ZHANG
11. ADAM G WIGGINS
12. FRANCIS CHAN
13. SEBASTIAN W KHOR
14. DEREK J CORBETT
15. MATTHEW R MCKAY
16. RUKMI D DUTTA
17. STEPHEN HERBORN
18. ELENA M YAP
19. ZHENDONG ZHOU
20. RICHARD SHIH C CHIU
21. JASON J LI
22. JAN M MIKKELSEN
23. GOVIND GANESHWARAN
24. DANIEL C POND
25. COSTANZO M COSTA
26. KAI LU
27. SAIF U ZAMAN
28. ADAM B HUDSON
29. YING P QUE
30. CARLO F SOGONO
31. BYRON K NG
32. PATRICK W CHU
33. MIN CHUNG KIM
34. FARZANA MUSTAFA
35. KUAN LUN HUANG
36. ROHIT DHAWAN
37. SUHRAWARDI ILYAS
38. ADRIAN M MEDIOLI

39. LI MA
40. FERDIE J DJUNAEDI
41. SWARNALATHA RADHAKRISHNAN
42. TEJAS SATHE
43. SONJA MILANOVIC
44. HENNY N ROMPAS
45. MITCHELL M KUO
46. SABRINA ZHANG
47. WILLIAM L LIEM
48. MINPU GUO
49. ASSAD MEHMOOD
50. FU SUN
51. ZHAOHONG SOH
52. RENEE CORY
53. YOUHNA B BORGHOL
54. TAO GUO
55. WEI XIONG WONG
56. SAMRAT NEUPANE
57. GILBERT H FOO
58. AIK C OOI
59. DIMITRIOS MIKOS TESSERIS
60. DAVID W SULLIVAN
61. MUHAMMAD A MALIK
62. XINWEI YOU
63. YU TU
64. SUKKIM CHIN
65. JASON KING TAO NG
66. ANDREW MCGILL-MORTON
67. JOANNE M CURRY
68. CHRISTOPHER J DE VANEY
69. WAI JACKY KEUNG
70. DEHONG YU
71. PETER KWOK KWONG TANG
72. ROBERT MICHAEL
73. CHRIS GALLAGHER
74. YUAN GU
75. NORMAN DONG
76. MARK D FACER
77. GARY F BRENNAN
78. WILLY SUSILO
79. ROMAN FISCHER
80. STEVEN Y GAGAU
81. IROSH FERNANDO
82. ROBERT L GILLAN
83. MAX VECHI
84. KOSTIA A ROBERT
85. PAUL G FUDGE
86. MUHAMMAD ALI BABAR
87. TONY YOUNG
88. THEO DRAKAKIS
89. BRENTON D THOMAS
90. JIE LU
91. SCOTT J DOUGLAS
92. AKEMI T CHATFIELD
93. CHENGJI ZHAO
94. ACHUT K MYNENI
95. LAURIE A CHISHOLM
96. BARRY DAVIES
97. SUNGHEUK JUNG

98. LANCE N DANTOINE
99. IAN H CUTLER
100. ALIREZA MIRHOSSEINI
101. SCOTT A SINCLAIR
102. ANTHONY L HENZELL
103. C J VANCE
104. JOSHUA A GRAHAM
105. GIL C CASTILLO
106. PERTER J BRIEDE
107. KIM RONALD NG
108. NADER SABET
109. MASSIMO BONATO
110. ALLAN FALLEIRO
111. ROBERT D AVERAY
112. GEOFF KIDD

Associate Grade

1. YONG XIA
2. PETER WINTAO TAN
3. LESLIE M KING
4. SCOTT M LOLLBACK
5. LUKE SCHOEN
6. BASTIAN KOEDEL
7. ALASTAIR J WEAKLEY
8. VAHID G TAEED
9. TODD N HEALEY
10. ARIF TANVIR
11. CRAIG A ROY
12. DEAN A COOPER
13. HENDRIK H KRUK
14. NAYANA A GARDIGE HEWAWASAM T.T.
15. JASEN CHONG

Affiliate Grade

1. UI YI WU
2. BALAJI NARANAPATTI
3. PREMASELVI N JAYAGANESH
4. MOHAMMED RAAD
5. ANGELO LOSINNO
6. GERARD A ZWART
7. DARRIEUX E A WILLENBERG
8. ROBERT THEAKER
9. NEETA LAL
10. FRANK CHIANG
11. SHERIDAN-SMITH NIGEL
12. JONATHAN CL CHAN
13. AKMAL S GADALLA
14. MICHAEL LE
15. KATHERINE CAMILLERI
16. NORRIE C BENNIE
17. YANAI PELES
18. ALFRED DERA
19. VLADIMIR Z TOSIC
20. DINU RADUCANU
21. LOUIS J TABORDA
22. PRAVESH GODIYAL

Life Student Grade

1. KENNETH W YATES
2. BRUCE R HOWARTH

Student Grade

1. PETER J REYNOLDS
2. GUNILLA E BURROWES
3. FARHAN RIZWI
4. TARA J HAMILTON
5. IAN R WIENAND
6. VINEET SINGH
7. CHAKREE TEEKAPAKVISIT
8. YONAH AZRIEL
9. NIRISHA SHRESTHA
10. ADEEL N BAIG
11. CARL RENNEBERG
12. KEPING YOU
13. DAVID TSAI
14. ANNE CREGAN
15. JI YOON
16. ARUN VISHWANATH
17. BAKANG N MOLWANTWA
18. DAVID J CARMICHAEL
19. ENG SUDHAKAR KATTUPALLI
20. NIKOLAS FLOURENTZOU
21. GRAEME W LOWE
22. JOHN R BOLZAN
23. KRUTARTHA PATEL
24. SHEN DONG
25. SRIDHAR REDDY PULIKANTI
26. YAGNESH B BHATT
27. JORGEN PEDDERSEN
28. FABIO T RAMOS
29. GEOFF A HISKENS
30. SUHRUD K DESHPANDE
31. DANIEL TSE
32. TEGAN J MATTHEWS
33. CHRISTOPHER ESCOTT
34. PENG XIAO
35. ANGUS J STEWART
36. DZUNG TRAN
37. YAN HUANG
38. CHUN KIT WONG
39. DEAN A SAFADI
40. ENG RAMI N KHUSHABA
41. PRASHIL PATEL
42. ALISON E NORRIS
43. GLENN P ALCOCK
44. MARK B FREEMAN
45. JOSHUA KACEN
46. SAZZAD HASAN
47. MICHAEL R GEORGE
48. CLARENCE DANG
49. KENNETH LAM
50. MICHAEL D GEORGE
51. ANDREW S RAE
52. DANDAN LI

53. THIERRY RAKOTOARIVELO
54. MUHAMMAD ARIF KHAN
55. HEIDI B STRATTI
56. NASSIR FAKHOURI
57. TING YU
58. ENG SAMARTHA BIJUKCHHE
59. MITRA MOHD ADDI
60. TAUSEEF GULREZ
61. VENKATA K GUTTA
62. LEON K MACDONALD
63. XIN ZHAO
64. YANXING CHEN
65. BALINT SEEBER
66. YAN CHEN
67. MARTIN M SCICLUNA
68. SARAH MORILLAS
69. YANXIN CHEN
70. JITHIN KESAVAN
71. WOCHUL CHO
72. MOHADDESEH NOSRATIGHODS
73. KAMRAN ZALI
74. MARK J TAYAR
75. NICHOLAS J WEBB
76. ALEX H NG
77. JUNGHUM YU
78. GEORGE CHI HON LAM
79. DALE R BATES
80. SAMI AZAM
81. LOUIS H JUNG
82. LACHLAN BLACKHALL
83. RAMTIN SHAMS
84. TOBIAS KAUPP
85. KAM T HO
86. PEMADEEP K RAMSOKUL
87. BIN CHENG
88. JONATHAN GAN
89. RASHMI NIGAM
90. SIMON MACKAY
91. NICK DEBOER
92. DAVID GUNAWAN
93. ALPIT R PATEL

3. Chapter News

3.1. Power Engineering Chapter

2006 was a reasonably good year but there is always room for improvement. I would like improved links with Academia as well as Industry and more effective communication with members.

Membership has increased over the past year and as of the end of January stands at 135 (up 12 from same time last year). I believe that a significant number of members are eligible for Senior Member grade and would urge those of you that qualify to apply. If you require any further information please contact John Robinson, myself or visit

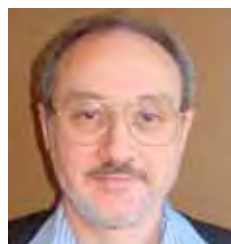
<http://www.ieee.org/organizations/rab/md/smelev.htm>

I will endeavor to have two PES lectures in the Joint lecture program. I would ask PES members to try and attend more lectures and IEEE Section functions, as well as volunteer their services in running the chapter. Officers are required to be elected annually and normally the term is limited to two years.

I would urge you all to get an IEEE web account and email alias. It is free and very easy, the web address is <http://www.ieee.org/web/accounts>.

NSW PES 2007 Officers are the same as last year

- Chair- Antony Zaglas (antonyz@ieee.org)
- Vice Chair - Dan Candotti (dcandotti@kemaconsulting.com)
- Secretary/Treasurer - John Robinson (jl.robinson@ieee.org)
- GOLD - Mark Gordon (gordon@ee.usyd.edu.au)



Tony Zaglas antonyz@ieee.org

Chapter Chair

Power Engineering Chapter, NSW Section

3.2. EMBS Chapter

I am delighted to continue as EMBS NSW chapter in 2007.

Broadly, our chapter services the needs of industry professionals, academics and students with an interest in the domain of Engineering in Medicine and Biology.

Our new website is now accessible via <http://www.ieee.org/go/embsnsw/>. Over the coming weeks you will see new content and details added to our website so make sure you bookmark this link and check it regularly! Soon you will be able to access our website via the NSW Section. So keep watch at <http://www.ewh.ieee.org/r10/nsw/index.htm> !

I am pleased to announce that I am the Australian representative on an international EMBS Senior Member Elevation initiative for 2007. I am sure that many of our EMBS members actually qualify for senior member, but have not yet taken the time to go through the Member Grade Elevation process, or have had difficulty located senior members to support your

elevation. So please look at the qualification requirements at http://ieee.org/web/membership/grade_elevation/grade_elevation.html. Over the coming months, if the EMBS records indicate that you would likely qualify, either I or one of my senior member representatives from within our EMBS chapter will be contacting you to support you through the senior member elevation process. I plan to establish teams of senior members who can themselves work as a team to support further senior member elevations. Alternatively, if you are a member of EMBS and believe you qualify for elevation, you are welcome to contact me via email c.mcgregor@ieee.org at ieee.org.

Our first on-site technical meeting was held at ResMed in December 2006. This event was extremely successful with 50 EMBS guests together with many ResMed staff. ResMed COO Rob Douglas gave a presentation on ResMed and this was followed by a factory tour. We are planning more technical meetings for 2007.

The IEEE EMBS flagship conference EMBC will run in Lyon, France in 2007. Details on the conference can be found at: <http://www.embc07.ulster.ac.uk/index.htm>. I am thrilled to be assisting with the organization of Theme 12: "Career and Professional Development in Biomedical Engineering" as co-chair of a new track established this year entitled "Women in Biomedical Engineering and Health Informatics". I will also be representing the NSW chapter at the Chapter Chair meeting. I hope to see you there!

As a mother of young children and recently returned to work from maternity leave, I know that fitting in attendance at Technical Meetings or during and outside of work hours can sometimes be difficult. If you are even able to arrange to attend one event each year, this may give you networking contacts that you can stay in touch with for the rest of the year.

I look forward to meeting you at one of our upcoming events. Together with your EMBS NSW committee we look forward to providing local EMBS support and assistance.



Carolyn McGregor c.mcgregor@ieee.org
Chapter Chair (Founding Officer)
EMBS Chapter, NSW Section

3.3. Communications and Signal Processing Joint Chapter

Welcome to the Communications and Signal Processing Joint Chapter local activities for 2007. We will schedule a number of lectures during the year on topics of current interest. There will be concentration on the rapidly advancing areas of Wireless Communications and Wireless Networks and their applications. Other important areas in Communications and Signal Processing will also be covered. Our lectures provide excellent background information on topics valuable to you and also provide an excellent opportunity for you to meet with many of your colleagues from industry, research laboratories, and the universities. I look forward to speaking to you at our 2007 local activities.



Sam Reisenfeld samr@uts.edu.au
Chair
Communications and Signal Processing Joint Chapter, NSW Section

4. Technology & History

4.1. Middle East's First Computer Named History Milestone

Built in 1954 in Rehovot, Israel, the Weizmann Automatic Computer (WEIZAC) became the Middle East's first computer and put Israel in the global technology loop. That's why WEIZAC was recognized with an IEEE Milestone in Electrical Engineering and Computing on 5 December 2006, at the place where it was built.

4.2. Chemists Achieve Crucial Step Toward the Creation of Molecular Computers

A crucial step toward the development of molecular computers has been reached, according to a January

article from the journal Nature. A group of chemists from UCLA and the California Institute of Technology (both USA) reported their successful model of a massive-scale, "ultra-dense" memory apparatus that contains data using reconfigurable molecular switches.

These molecular computers are much smaller than traditional, silicon-based computers and show promise for the storing and retrieval of memory, according to the researchers. To read more, go to:

http://www.eurekalert.org/pub_releases/2007-01/uoc--ucc012407.php

4.3. Thought Powered Wheelchairs in Development

A new wheelchair commanded by thoughts is currently in development by researchers at the University of Zaragoza in Spain. The chair will use a process called brain-computer interface, or BCI for short, which involves attaching electroencephalogram electrodes to a rider's scalp, which then record brain rhythms and convey them to the chair's computer. Two 800-MHz Intel computers mounted on the wheelchair will process these readings and send instructions to the wheels. While the signals are crude, advances in decoding algorithms have made it possible to train the software to recognize simple commands such as turn left or turn right. Over time, more specific commands, such as moving to a certain room by thinking of it, will become understood by the software. To combat misinterpreted commands, a laser will be attached to the front of the chair to avoid collisions with the surroundings. The technology is still a couple years away from being perfected, and the researchers are looking at 2008 or 2009 before they will have a working prototype. Read more:

<http://www.wired.com/news/technology/medtech/0,72580-0.html?tw=rss.index>

4.4. Proposed ISP Plan to Stop Online Transmission Problem at the Source

A new report published by IEEE Computer Society proposes a new means of fighting harmful online transmissions such as viruses and spyware by developing software that monitors a computer's outbound traffic. This would control threats at the origin point, rather than trying to screen them at a receiving point. The authors suggest introducing a certification mechanism that induces service providers to voluntarily accept some degree of accountability, without interfering with the underlying decentralized protocols. Such a mechanism could propagate incentives through the network, ensuring that distributed participants coordinate their efforts to increase security as well as reduce congestion. Providers would then be given membership in a collective that adheres to the idea "certifying authority" (CA). Being part of the CA scheme provides incentives

and offers compensation for attacks. Additionally, settings on a user computer would be able to allow only transmissions stemming from other certified ISPs, a notion that works well for businesses wanting to avoid mail containing unblocked virus. Ultimately, the plan could create a new standard, which eliminates a significant amount of malware. Read more:

http://www.computer.org/portal/site/computer/menuitem.5d61c1d591162e4b0ef1bd108bcd45f3/index.jsp?&pName=computer_level1_article&TheCat=1005&path=computer/homepage/Jan07&file=feature2.xml&xsl=article.xsl&

4.5. New Chips Enable Faster, More Versatile Mobile Electronics

The latest technology for next generation mobile devices was showcased at the International Consumer Electronics Show in Las Vegas by chip manufacturers Qualcomm and Broadcom, who say that in addition to high-speed wireless networks, the new devices will require powerful hardware to handle business applications, multimedia such as music and video, and Web browsing.

Qualcomm's latest chipset uses a 1-GHz microprocessor, intended to improve the performance of mobile devices and reduce power consumption, the company says, and supports a variety of 3G cellular technologies, including EV-DO, deployed by Sprint and Verizon Wireless in the United States, and UMTS/HSDPA, deployed by Cingular, as well as Wi-Fi and Bluetooth. Broadcom's latest chipset, the single-chip HSDPA processor, is capable of connecting mobile users to the Web at 7 Mbps, the company says, and has advanced digital signal processing and multimedia functionality for recording and playback of video and audio, and a high-performance applications processor. Read More:

http://www.informationweek.com/story/showArticle.jhtml?articleID=196802685&cid=RSSfeed_IWK_News

4.6. Induction Chargers Cut the Cord on Consumer Electronics

Cord-free chargers that use electromagnetic induction could be on the market in 2007, according to manufacturer Fulton Innovation, whose eCoupled technology debuted this year. The technology transfers energy from one device to another through a shared magnetic field, the firm says, and will work with common consumer electronic devices such as cellular phones, digital music players and PDAs. The technology uses a feedback and control system that queries an individual device in real time, determining power needs and the age and charging habits of its battery, insuring the charger delivers the right amount of power to keep a device at high efficiency. Read

more:

<http://www.eweek.com/article2/0,1895,2077614,00.asp>

4.7. Cell Phones Developed With Miners in Mind

In an effort to ameliorate rescue operations for trapped miners, three companies have joined forces to develop a cell phone that can make a call from 1000 feet inside a mine. The first tests of the phone were successful, having been completed last month in a former mine in Pittsburgh, Pennsylvania (US). The phone is able to complete its calls using a technology called Internet Telephony, or VOIP for short. Additionally, the system relies on routers set up inside that create a path to the outside. The routers are configured to find the optimal path for the signal, so that if one were to collapse due to a cave in, another could pick up the signal. Once outside, the signal is converted to analog and sent over traditional phone lines. The first of the phones, called MP1, are in development and will also come with homing technology to track each individual miner. Read more:

http://www.informationweek.com/story/showArticle.jhtml?articleID=196802591&cid=RSSfeed_IWK_News

4.8. Get Certified With IEEE Computer Society's Certified Software Development Professional Program

The IEEE Computer Society's Certified Software Development Professional (CSDP) program, a certification program for mid-level software engineers, will offer two testing windows in 2007. The application deadline for the 2 April - 30 June testing window is 2 April. The application deadline for the 1 September - 30 November testing window is 1 September. For more, visit: www.computer.org/certification

4.9. Engineers Model Superfluid Behaviour with Lasers

Superfluids, frictionless liquids that are difficult to create and study, can be modeled using lasers, according to electrical engineers at Princeton University, who say that the technique allows them to simulate experiments that are difficult or impossible to conduct with superfluids. The researchers say that they validated their technique by generating results that matched data from previous superfluid experiments. Particles in superfluids move together instead of at random and the same behavior has been observed in light waves that pass through certain materials known as nonlinear crystals. The research could heighten the current understanding of condensed matter physics as well as lead to advances in sensor technology, atomic trapping and optical communications. Read more:

<http://www.theengineer.co.uk/Articles/297586/Lasers+shed+light+on+liquids.htm>

4.10. See-through Displays

Transparent, high-performance transistors embedded in glass or plastic can power see-through displays, according to a Northwestern University chemist, who says the technology could lead to displays that are indistinguishable from plates of glass when not displaying an image. Applications could include car windshields that display maps, giant billboards and a variety of applications for new electronics, according to the chemist who says he has launched a start up to commercialize the technology and could have products on the market by 2008. Read more:

http://blog.wired.com/gadgets/2006/12/seethrough_display.html

4.11. Mobile Gigabyte DRAM

The first 1-gigabyte DRAM for mobile products, using 80-nanometer process technology, has been developed by Korean electronics giant Samsung. The synchronous DRAM is intended for use in a range of handset applications, digital still cameras, portable media players and portable gaming products, according to Samsung. The new DRAM uses the same packaging technique as the 512-megabyte double-die stack, but includes a temperature-sensing feature. Samsung claims its temperature-compensated self-refresh feature reduces power drain in standby mode by 30 percent over conventional memory chip designs. Samsung said it plans to mass produce the new device beginning in the second quarter of 2007. Read more:

<http://www.eetimes.com/news/latest/showArticle.jhtml;jsessionid=F4BELYO01LHUEQSNLSCCKHA?articleID=196702063>

4.12. Healthy Cell Phone Chip Will Battle Harmful Emissions

At the recent GSM World Congress in Barcelona, Spain, one emerging company made itself heard by touting its new healthy mobile phone chip. Created and patented by Exradia, a London-based technology company only a year old, the ASIC Chip is embedded into a mobile phone's battery to neutralize potentially harmful emissions, generating the noise field signal that drives a wire coil to produce the noise field itself. It's based on Noise Field Technology and works by superimposing a low frequency randomized magnetic field over the man-made regular electromagnetic field (EMF) emissions that such components output. The added noise essentially manages to mimic low-level erratic EMF emissions that occur in nature, causing human biological cells to ignore them. Read more:

http://www.informationweek.com/story/showarticle.jhtml?articleid=197005092&cid=rssfeed_iwk_news

5. 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.

2007	Event	Speaker	Host	Contact	Venue [ensure you re-confirm beforehand]
28/2/2007	RMV Queen Mary 2 - Electronics	John Jeremey	Joint (EA)	George Fox	Chatswood RSL, 446 Victoria
5/3/2007	IEEE NSW SECTION - Meeting		IEEE	Antony Zaglas	(7:00–9:00pm) Seminar Room 1 - Library Gore Hill TAFE
6/3/2007	Woods Hole Oceanographic Institute - Topic	Sandy Williams	IEEE	David Burger	MIDDAY to 2pm - Lecture Theatre - 570 George St, SYDNEY
8/3/2007	National Electricity Market	Dr Brian Spalding, NEMMCO CEO	EA	George Fox	8 Thomas Street, Chatswood
12/3/2007	Introduction to High Performance Computing (free of charge)	Dr Joachin Mai, Australian Centre for Advanced Computing & Com	IEEE Computer & joint members	M Arif Khan mkhan@ics.mz.edu.au	1pm to 2pm, conference room level 2, Building E6A (Room #211), Macquarie University
18/3/2007	Sydney Harbour Bridge 75th Anniversary – Walk [keeping engineers fit program]	www.ourbridge.com.au	EA Heritage	1300 884899	Listed out of special interest, albeit non electrical in nature, Free to Walk over it, \$3 to drive over it, FROM \$169 to walk to the top of it.
22/3/2007	Demand Management - relationship between energy efficiency, greenhouse abatement and peak demand	Paul Myors, EnergyAustralia	IET	David Bruce-Steer	8 Thomas Street, Chatswood
2/4/2007	IEEE NSW SECTION - Meeting		IEEE	Antony Zaglas	(7:00–9:00pm) Seminar Room 1 - Library Gore Hill TAFE
2/4/2007	ESA Terahertz Technology	Dr. Peter DeMaagt	??		???
April 2007, date TBA	Internet 3.0: Ten Problems with Current Internet Architecture and Solutions for the Next Generation	Prof. Raj Jain	IEEE Comsig	IEEE Asia Pacific Operations Centre, Singapore Science Park 1	Internet Conferencing Presentation using IEEE LiveMeeting conference center.
11/4/2007	ANSTO Nuclear Reactor Seminar		EA Illawarra	Bob Innes	Contact Engineers Australia Illawarra/Sutherland directly.
12/4/2007	Quantum Dots and Nanowires	Professor Chennupati Jagadish	Joint (IEEE)	Graham Town	8 Thomas Street, Chatswood
1/05/2007 - 3/05/2007	CeBIT Australia. CeBIT@hannoverfairs.com.au [Fees may apply].		Industry	Hannover Fairs Australia	Sydney Convention and Exhibition Centre
7/5/2007	IEEE NSW SECTION - Meeting		IEEE	Antony Zaglas	(7:00–9:00pm) Seminar Room 1 - Library Gore Hill TAFE
10/5/2007	Siemens - Future directions		Joint (EA)		8 Thomas Street, Chatswood
24/5/2007	Electrical Systems for the water poor		Joint (IET)		8 Thomas Street, Chatswood [SEMINAR]
4/6/2007	IEEE NSW SECTION - Meeting		IEEE	Anthony Zaglas	(7:00–9:00pm) Seminar Room 1 - Library Gore Hill TAFE
14/6/2007	The commercialization of Photonics technology, case studies	Ian Clarke (Optium Inc)	Joint (IEEE)	Graham Town	8 Thomas Street, Chatswood
28/6/2007	Sustainable Energy / Alternate Electricity		Joint (EA)	Peter Hitchiner	8 Thomas Street, Chatswood

- The 7th International Conference on Power Electronics and Drive Systems (PEDS'07) will be held in Bangkok, Thailand, 27 to 30 Nov 2007.
- IEEE Wireless Communications and Networking Conference (WCNC 2007) from 11 – 15 March 2007 / Hong Kong / <http://www.ieee-wcnc.org>

The 2nd International Conference on Wireless Broadband and Ultra Wideband Communications AusWireless'07



Call for Papers

AusWireless'07

<http://auswireless.eng.uts.edu.au/>

27 - 30 August 2007

Crowne Plaza Hotel, Darling Harbour, Sydney, Australia

Organised and Sponsored

by

University of Technology, Sydney, Faculty of Engineering, Australia

Supported by Springer Netherlands

All papers accepted for this conference will be published by the IEEE Computer Society (CPS) and appear in the IEEE Xplore and the extended versions of the best papers will also be published as a book by Rive Publishers Denmark.

IMPORTANT DATES

Full papers due: 31 March 2007

Notification of Acceptance: 15 May 2007

Camera Ready due: 15 June 2007

PAPER SUBMISSION INSTRUCTIONS

All paper submissions are handled electronically, following instructions found at:

<http://auswireless.eng.uts.edu.au/>

All papers will be peer reviewed. Accepted and published papers will be included in the conference proceedings published by Springer. Selected best papers from the conference will also be published as a book by Springer Netherlands.

Seminar on High Performance Computing organizes by MQ IEEE Student Branch.

Date: Monday, 12th March

Time: 1:00pm to 2:00pm

Venue: Conference Room Level 2, Building E6A (Room # 211), Macquarie University, Sydney

Topic: "Introduction to High Performance Computing"

Speaker: Dr. Joachim Mai

Australian Centre for Advanced Computing and Communications (www.ac3.com.au)

Charge: No fee for attending this seminar.

Contact: M Arif Khan mkhan@ics.mq.edu.au (PhD Student, Electronics Department, Macquarie University)

Abstract:

Introduction to High Performance Computing (HPC)

General introduction to HPC for beginners. Covering different hardware architectures as well as software concepts. Introduction to the super computers available at ac3 and APAC.

- 1) General introduction into High Performance Computing
 - a) Different system architectures (Hardware)
 - b) Different programming strategies (Software: MPI, OpenMP, PVM, Parallel Libraries, commercial software)
- 2) Hardware and Software available at ac3 and APAC.
- 3) Choosing the right hardware/software for your problem

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 of **Circuit** 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 (0)2 94318677

Circuit reaches over 2500 IEEE members in NSW.
For advertising in *Circuit*

please contact:

Eddie Fong at +61 (0)4 13777511 or 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

Volume 30 Issue 2

July 2007

Contents

for your future career endeavours.

Item	Page
<i>Editorial</i>	1
1. <i>Messages From The Chair</i>	1
2. <i>News In Brief</i>	2
3. <i>Chapter News</i>	5
4. <i>Technology & History</i>	7
5. <i>Technical Meetings & Conferences</i>	10
6. <i>The Relationships with the Professional Bodies in Australia</i>	12
7. <i>The 35th Anniversary Dinner Acceptance Form</i>	13
8. <i>NSW Section Committee Nomination for 2008</i>	13
9. <i>Continue to Receive CIRCUIT by Post</i>	14



Eddie Fong eddiefong@ieee.org
Circuit Newsletter Editor
NSW Section

Editorial

We are in the mid year now and it's time for the NSW Section committee nominations for 2008. I encourage all of you to volunteer your service for next year. We have a lot of areas for you to participate in and they are:

NSW Section Executive Committee - Chair, Vice Chair,
Treasurer, Secretary
Newsletter Circuit Editor
Fellow Search
Membership Development
Professional Activities
Educational Activities
Student Activities
GOLD
Awards and Recognition
Life Member Activities
Nomination
Historian
Webmaster
Committee members

In addition, you are also encouraged to volunteer your service to your own Chapter.

When you volunteer your service to the Section, you are not only contributing your valuable expertise and time. You will actually be richly rewarded in gaining knowledge on IEEE local, inter-state and regional resources and activities. They will be a valuable asset

1. Messages from the Chair

The IEEE NSW Section is pleased to announce the ratification of a new Education Chapter here. This has been championed by Mark Lee from Charles Sturt University (CSU). Special focus on e-learning developments are key to this Chapter, and in that regard, a dialogue has been opened with Engineers Australia as an information sharing forum.

The 35th Anniversary Dinner for the IEEE in Australia is progressing well. Unfortunately our Region 10 Chair; Ms Janina Mazierska cannot re-schedule her travel programme to attend but passes on her best wishes for the event.

In recent times, the only major conferences being held in Sydney have been conducted under the Communications Society banner, i.e. the AusWireless series of conferences. IEEE NSW Section would like to stimulate interest in hosting some other significant sized conferences, including those supporting IEEE directly. These could include TENCON, GOLD and Student Congress activities. Many of you may balk at the cost of doing business in Sydney, but there is no reason we cannot get behind an initiative for a country based activity or even promote an activity/conference interstate in our least represented city, i.e. Darwin.

If you or your Society/Chapter is interested in hosting a conference here, then please raise the event profile

and get a proposal in front of the committee.

The IEEE NSW Section manages the funds of the Section and all the Chapters and Affinity groups under the Section. For the past 5 years, IEEE NSW Section has had an excess in our income reserves sitting unused in our Bank accounts.

One of the challenges in most organizations is expending funds in an open, transparent and auditable fashion, and in a way that benefits members' careers and interests directly. Excluding Newsletter distribution costs, the only regular direct financial commitment IEEE NSW Section has is to the Max Simons Student Prize award which has a \$1000 first prize amount (about 3% of current Section income) and a \$500 second prize. A proposal was moved last month to sponsor a \$1,000 scholarship prize at each NSW University got deferred, and I certainly do not want to see this proposal die.

I would like to work with any IEEE member(s) to help build a business case to give back something of significant value to you as members. Remember, we are simply the custodians of your money that should directly benefit you.



David Burger k3hz@ieee.org
Chair
NSW Section

2. News in Brief

2.1. The 35th Anniversary Dinner on 16 August 2007

The 35th anniversary of formal IEEE involvement in Australia will be marked with an Anniversary dinner function on the 16th August 2007. Back in 16 Aug 1972, there was just one section, which covered the whole of Australia & PNG. In 1984, the Victorian sub-section was upgraded to full Section status and in 1986, the Australian Section was broken up into 6 Sections namely Victorian and also responsible for Tasmania (we couldn't call it Victoria as this name has been used in Canada), Western Australia, South Australia/Northern Territory, Queensland/PNG, NSW/Australian Capital Territory as well as the IEEE NSW Section. In December 1985 the Australia Council was established. In 1988 the North Queensland Section was formed. Full historical details can be

downloaded from the IEEE NSW Section's website.

All IEEE members and partners are cordially invited to attend and we will have recent IEEE Life Members invited to briefly speak about their experiences. Numbers are limited, so can I kindly ask you to RSVP and send a cheque or payment as per the 35 Year Dinner Acceptance Form at the back of this Circuit.

The cost per person will be just \$40 and the function will be heavily subsidised by the IEEE NSW Section.

We hope to present an IEEE recognition award but this will be dependent on IEEE head office timing.

The Dinner venue is located the "Royal Sydney Yacht Squadron" ShellCove Room overlooking the Harbour and Bridge, 33 Peel Street, Kirribilli, NSW 2061. There is limited club & street parking available. We are invited to this exclusive Club by members Philip & Lenore Dulhunty.

2.2. IEEE NSW Section Web-Master ****Wanted****

We are still looking for volunteer to step out to provide the NSW Section in managing the NSW Section Website.

Those interested, please contact David Burger k3hz@ieee.org.

2.3. Invitation for IEEE NSW Section Computer Chapter Chair

We need volunteers for the Computer Chapter chair 2008. The Computer Chapter in NSW has over 500 members! Members of the Computer Chapter who are interested, please send in your nomination to the Nominations committee by 30 September 2007.

This is a very rewarding role, with the ability to network with other members and arrange events and presentation to benefit the computer Chapter members.

2.4. Recognizing Outstanding IEEE Volunteers

You can help recognize the efforts of outstanding volunteers by nominating someone for one of the prestigious Regional Activities Board (RAB) awards. Each prestigious award has a unique mission and criteria, and offers the opportunity to honour distinguished colleagues, inspiring teachers and corporate leaders.

Do you know someone who has made substantial Regional contributions through innovative projects, exemplary leadership, service, or by fulfilling the goals as related to Transnational Activities? Consider nominating them for one of the following awards:

- * RAB Achievement Award
- * RAB GOLD (Graduates of the Last Decade) Achievement Award
- * RAB Innovation Award
- * RAB Leadership Award
- * RAB Larry K. Wilson Transnational Award

The deadline for nominations is 15 October 2007. More information and nomination forms are available at the RAB Awards Website: <http://www.ieee.org/rabawards>. Questions can be sent to rab-awards@ieee.org.

2.5. 2008 NSW Section Committee Nomination

It is time for all members who have not stepped forward to be involved with the IEEE activities and Chapters' activities to join the NSW Section Committee for 2008. Interested members need to fill in the Nomination Form, which can be found at the back of this Circuit and fax it before 1 August 2007.

2.6. Student Award

One of the resolutions from the IEEE Australia council in 2006 was to run a national Student Branch award program. In 2007, IEEE NSW will host this event and undertake the administration of the Award (for 2007 only) and nominate one Judge from IEEE NSW, IEEE Victoria and IEEE Queensland.

Schedule for the IEEE AC Student Branch 2007 Competition are:

1. Competition announced
- Flyer to all Sections, websites & Students in Australia by 1 May 2007
2. Judges nominated by 11-04-2007
3. AC Chair and Judges teleconference by 17 April 2007
4. Nominations closed by 31 August 2007
5. All entries received by Judges by 15 September 2007.
6. Finals decision submitted to the AC Chair by 15 October 2007
7. Final decision announced by the AC Chair by 30 October 2007

2.7. Call for Articles: IEEE Women in Engineering Magazine

Articles are now being accepted for the new IEEE WOMEN IN ENGINEERING MAGAZINE, scheduled to debut in December 2007. The publication will promote the mission of Women in Engineering – "To Inspire, Engage, Encourage and Empower IEEE Women Worldwide" – through articles that integrate engineering with current issues facing society and

interdisciplinary technologies, including medicine, law, governance and international women's issues.

Authors are invited to submit papers on a variety of topics including engineering careers, career guidance, profiles and current events involving technology. Authors whose articles are selected will receive US\$50 to \$100 honoraria. Articles should be submitted to wie-research@ieee.org.

2.8. IEEE Distinguished Lecture

An IEEE Distinguished lecture by Professor Jagadish from the Australia National University was conducted on 12 April 2007, which presented a pre-eminent view of the development of micro-dot lasers and nano-wire construction both globally and in Australia. This included world leading material with the development of optical masks for the construction of laser, laser waveguide and launch antennas.

Professor Jagadish highlighted the need to re-build and enhance many of the wafer foundry infrastructure items at the University before serious work could take place, much of which was ground breaking in its own right.

The conclusions showed a demonstrated State of the Art Quantum Dot Devices (Lasers, Photo detectors, Photonic Integrated Devices) and Nanowires which can open up exciting opportunities to develop next generation photonic devices and circuits. The lecture was attended by 21 people, which included retirees, engineers, patent attorneys and a physicist.



From the left, Mr Carl Harrap, unknown, Professor Graham Town, Professor Chennupati Jagadish and David Burger.

2.9. IEEE Spectrum

IEEE Spectrum, the Institute Move to Digital Delivery. Would you like copies of IEEE Spectrum and The Institute delivered to your desktop? You can read Spectrum online starting in July, when the IEEE test-drives their digital delivery. You'll be able to receive issues of Spectrum from July through December, followed by the September and December issues of The Institute.

2.10. Welcome to Our New Members and Upgrade Members

From Feb to May 2007, we have the following new members or newly upgraded members:

Senior Member Grade

1. PHILIP P CIUFO
2. DR BRIAN G FERGUSON
3. MARK HEDLEY
4. STEPHAN CHALUP
5. SAEID NOOSHABADI
6. DR KATINA MICHAEL

Member Grade

1. BEN LESLIE
2. ALLAN FALLEIRO
3. ROBERT D AVERAY
4. GEOFF KIDD
5. PAUL A ECCLES
6. GILES SMITH
7. IGOR G PALMER
8. GREGORY MAR
9. STEPHEN R MCKNIGHT
10. GRAHAME R ARNOLD
11. DR SLADE MATTHEWS
12. JACK BI
13. ENG RENAN D DE OLIVEIRA
14. DR PEREZ MOSES
15. SCOTT W MURDOCH
16. RICCARDO LEGGIO
17. DR DIMITRI ALEVIEV
18. DANIELLE M HALE
19. GARETH A SIMMONS
20. LEI YUAN
21. GRAHAM R EAST
22. MATTHEW E COOKE
23. DR RAYMOND J HUETTER
24. JAY R CARNIEL
25. ANJAN K SUBEDI
26. ENG DEBORA D SILVA EDGAR
27. IAN J MONRO

28. DR PATRIK WAHLBERG
29. DIETHELM OSTRY
30. ROSS FORSYTH
31. JASPREET S SIJHER
32. JAMES C HERBERT
33. AVRAHAM ARDITI
34. ALEX SALOUROS
35. HUGO R RUDAZ
36. HENRIK L PETANDER
37. SCOTT N REEVES
38. WENCKE LEHNERT
39. DR SINA VAFI
40. DR ALEX C NG
41. PETER K HOBBS
42. FINIAN BYRNE
43. DR ANDREW D HELICAR
44. PAUL K NANKIVELL
45. SHAUN M DEIERL
46. RICHARD S BERGMAN
47. DR DARREN J SPOOR
48. VAL DYADYUK
49. DRAGAN MUSIC
50. DR SHIPING CHEN
51. MIGUEL A FLEITAS
52. DR JOHN J ZIC
53. PAUL PIPERIAS
54. DR PHILIP B CHAPPLE
55. MICHAEL P HENNESSY
56. GEENA KORDEK
57. PAUL FEIGHAN
58. DR MANAS K PATRA
59. MICHAEL B CLARK
60. JOHN BUCK

Associate Grade

1. PAUL G FUDGE
2. TONY YOUNG
3. SCOTT A SINCLAIR
4. ANTHONY L HENZELL
5. DR C J VANCE
6. JOSHUA A GRAHAM
7. GIL C CASTILLO
8. PERTER J BRIEDE
9. ANTONY G EGAN

Affiliate Grade

1. PRAVESH GODIYAL
2. ROHAN MCADAM
3. LESLEY MALLOWS
4. MOHAND S SOLTAN
5. ERIK F BIESTER
6. ANTHONY ASHTON
7. DAVID METCALF
8. ANTON V DETH
9. SARAH E CORRIS
10. CHRISTOPHER G LEGGATT

Student Grade

1. AOUS T NAMAN
2. ANNE CREGAN
3. DAVID GUNAWAN
4. ALPIT R PATEL
5. DUSHYANTH GONDI
6. JIONG CHEN
7. LEON N CUNIO
8. MARTIN S SWINBURN
9. RAVI M RABARI
10. ENG VIJAYA PARTHA SARATHI PALADUGU
11. SUSAN BRUCK
12. KASUN GORAKANAGE
13. CIGEEN GUTIERREZ
14. ERIN BOW
15. ZHAO H ZHANG
16. DOURAID R FARID
17. W A CHATHURA GUNATHILAKE
18. DONALD J SMITH
19. MICHAEL R NARAYANAN
20. ALI H ELGHIRANI
21. NICHOLAS J MULDOON
22. YINGYI LIU
23. MIKE ROSE
24. PRABODHA PARANAVITHANA
25. CINDY L RUSSELL
26. EDWINA M BAVINGTON
27. WALID FARHAT
28. LIVIU CONSTANTINESCU
29. DAVID CHANG
30. KING YUK CHAN
31. JUDE A ANGELO
32. BRENDAN M HARRIS
33. LIANG WANG
34. THARMARAJAH THIRUVARAN
35. ENG ASHKAN LOHRASBY
36. VIDHYASAHARAN SETHU
37. KEVIN ADISTAMBHA
38. NADIRAH AL ATTA SOO
39. PETER W DAVIDOFF
40. JEFF THOMPSON
41. IAN M LAMBERT
42. ANGUS Y CHENG
43. JOSHUA M BROWN
44. DAVID G DUGO
45. JAMIE N ROSAS
46. BRAD J STEWART
47. JON M MCDONALD
48. JAMES A SMITH
49. DAVID J WINDER
50. JASON M TRAVISH
51. CICERO MARTELLI
52. LUO A MITCHELL
53. JACOB J BORGER
54. LUKE STEWART
55. SCOTT N PENFOLD
56. BLAIR D HOWARTH
57. CHRIS WALSH

58. JAIMIN PATEL
59. CHUNG CHAN
60. AMY L ZIEBELL
61. YIU CHEONG LAM
62. MICHAEL R LAMONT
63. CHRISTOPHER S MADDEN
64. JEAN-MICHEL ROUE

3. Chapter News**3.1. Communications and Signal Processing Joint Chapter**

The Joint Communications and Signal Processing Chapter has a Conference coming up in August 2007. Please refer to item 5 in this newsletter. The current Chair, Sam Reisenfeld is taking up a 6 month sabbatical in a number of countries including South Korea from the middle of July 2007. David Burger will act as Chapter Chair for the remainder of the year. We wish Sam well.

At the June IEEE NSW Section meeting, it was agreed by the Executive and Committee present to expand the Communications and Signal Processing Joint Chapter to include the Oceans Engineering Society here in NSW. Once the Section minutes have been issued, application for a Joint Coms/SigProc/OE Chapter for NSW will be made to IEEE headquarters. This is being done in accordance with joint Chapter rules.

The addition of the Oceans Engineering Society Chapter will facilitate the 2010 Conference scheduled to be held in Sydney.

More information to follow in the November edition of CIRCUIT.



David Burger k3hz@ieee.org

covering Chair

Communications and Signal Processing Joint Chapter, NSW Section

3.2. LEOS/CAS/SSC Joint Chapter

The new joint Chapter held its first full technical meeting on 12 April 2007. We were very fortunate to have Emeritus Distinguished Lecturer, Professor Jagadish, travel from ANU to speak on his group's

work on nano-structured semiconductor devices and their novel properties. Some interesting discussions followed over dinner at the local RSL.

Upcoming technical meetings:

1. Dr Ian Clarke (Optium Inc.), "Case Studies in the Commercialisation of Photonics Technology" from 5:30 for 6pm, 14th June, 8 Thomas St Chatswood.
2. Prof M. Selim Unlu (IEEE Distinguished Lecturer, Boston Univ.), "Applications of Optical Resonance to Biological Sensing and Imaging" 12 noon, 29th June, E7B Mason Theatre Macquarie University,
3. Prof Unlu will also be giving a different presentation at UTS. Please contact G. Town for details.

Also, please note the deadline 11 June 2007 for submissions to the IEEE Asian Solid-State Circuits Conference (A-SSCC), to be held in Korea, 12-14 November 2007.



Graham Town
Chapter Founding Chair
LEOS/CAS/SSC Joint Chapter, NSW Section

3.3. Education Society Chapter

The IEEE NSW Section Education Society Chapter was officially formed on 10 May 2007. The Chapter will provide regular networking and professional development opportunities for those interested in improving educational outcomes in electrical engineering, electronics engineering, computer engineering, computer science, information technology and cognate disciplines, across all education sectors. The Chapter's activities will also include a strong emphasis on the use of technology to enhance teaching and learning within the above domains, in face-to-face, online, as well as blended learning environments. It is hoped that, in the months and years to come, the Chapter will make a significant contribution to improving the quality of education in these areas here in NSW.

Please do not hesitate to contact me if you would like further information on the newly formed Chapter or about Education Society membership in general. I would also welcome any ideas or suggestions you

might have pertaining to the Chapter, e.g. events that you would like to see run.

I look forward immensely to meeting you at one of our meetings!



Mark J.W. Lee malee@csu.edu.au
Chapter Chair
Education Society Chapter, NSW Section
malee@csu.edu.au

3.4. Power Engineering Chapter

There will be a lecture by Ronald Stillman, ME PhD, FIEAust, SMIEEE, and Visiting Fellow at the UNSW on the 13th of September 2007 at the Institution of Engineers Chatswood. The topic is Power Blackouts and Liability for Economic Loss or Injury.

A one-day workshop on Energy Efficiency and Demand Management by Distinguished Lecturer Scott Rouse, P.Eng., MBA, CEM & CSDP, Managing Partner, Energy @ Work Ontario Canada will be held on the 14th of September 2007. The location and lecture details will be posted on the web site. For further information please contact Tony Zaglas

This is my second year as PES Chapter chair and according to the bylaws I must step down at the end of this year. I would like to take this opportunity to thank all those who contributed to the chapter's activities and members of the committee. I hope that more PES members participate in the running of the Chapter and volunteer to serve in the committee. I would also like to see more members attending functions and activities.

Please be advised that nominations for the elected PES Officer positions of Chair, Vice Chair, Secretary and Treasurer are to be sent to Dr Graeme Gwilliam, Chair PES Nominations Committee at gb.gwilliam@ieee.org



Tony Zaglas antonyz@ieee.org
Chapter Chair
Power Engineering Chapter, NSW Section

3.5. EMBS Chapter

Our first on-site technical meeting for 2007 was held at Cochlear in April. This event was extremely successful and a great successor to our ResMed event last year. Attendees were treated to the latest EMBS information, followed by a presentation about Cochlear. We were all thrilled to listen first hand to a Cochlear implant recipient who provided fascinating insights on the impact of his hearing loss and the role the Cochlear implant has played since that time. The event concluded with an informative factory tour followed by networking time with a refreshments and a delightful afternoon tea. Many thanks to all those that assisted with arranging yet another successful event. We are planning more technical meetings for 2007.

The IEEE EMBS flagship conference EMBC will run in Lyon, France in 2007. Details on the conference can be found at: <http://www.embc07.ulster.ac.uk/index.htm>. I am thrilled to be assisting with the organisation of Theme 12: "Career and Professional Development in Biomedical Engineering" as co-chair of a new track established this year entitled "Women in Biomedical Engineering and Health Informatics". I will also be representing the NSW chapter at the Chapter Chair meeting. I hope to see you there!

Together with your EMBS NSW committee we look forward to providing local EMBS support and assistance.



Carolyn McGregor c.mcgregor@ieee.org
Chapter Chair (Founding Officer)
EMBS Chapter, NSW Section

4. Technology & History

4.1. Engineers in Society

Engineers in Australia often wonder why is it that there are so few engineers in parliament, state or federal, or in public life more generally. Some even think that engineering is inherently not conducive for a role in public affairs. But it soon becomes obvious that it is not so, when we examine the role of engineers in other societies.

Approaching the subject from my background, which is Lithuanian, I have been able to observe engineers in society from another vantage point. In Lithuania engineers have always been very prominent in public life, whether it has been in politics, administration, or public affairs in general, and they even have not shied away from a role in cultural affairs. And Lithuania is not unique in this – as in most of Continental Europe a similar pattern of engineers being active in public life can be observed, especially Central and Eastern Europe. In many ways engineering there is the "glamour" profession, in the way that medicine and law are in Australia.

Since Lithuania regained independence in 1990, all of the three Presidents have been engineers. The majority of the Prime Ministers have been engineers or physicists, as have been most of the ministers. The current ministry has one of the lowest proportions of engineers, but it still has one engineer and one physicist (the current foreign minister) out of the 14 ministers. More than 50 members in the current parliament of 140 are engineers or scientists. Even here in Australia, nearly a third of the Presidents of Australian Lithuanian Community have been engineers or scientists. In the Federal Executive of the Australian Lithuanian Community (1977-78), on which I had the honor to serve, there were three engineers (two with PhD's) and a chemist, out of seven members. On the Baltic Council of Australia in the same period, four of the six members were engineers. These figures speak for themselves.

Why is the role of engineers so different here in Australia? I am sure that the very word "engineer" has a lot to do with it, with connotations of engines and men in dirty overalls. Very few realize that "engineer" does not come from "engine" at all, as there were engineers long before there were engines. "Engineer" and "engine", in fact, are both independently derived from the word "ingenious", but very few people know this. This is a common problem in all English speaking countries. In addition, the attitude of the media does not help, with epithets like "geek", "nerd", "techie" and so on being directed at engineers. As an engineering academic, one also hears people mouthing phrases like *"those that can - do, these that can't - teach"*, and when I hear this I am often tempted to add *"and those that can do neither - become bureaucrats!"*. But maybe there are even deeper reasons for engineers' reticence to engage in public life. Engineers like to apply rational thought and scientific principles to the solution of problems and they do not like the "spin" technology that often replaces rigorous thought in the political sphere, but then why do these considerations not affect engineers in other countries?

I think that in Australia engineers, speaking generally, simply adopt roles that are "expected" of them, without even consciously being aware of the historical and cultural circumstances that have created these "expectations". Why these circumstances have arisen is another question. Being aware of the disdain and

disrespect that is often directed at them, they withdraw into themselves, making work well done their reward – becoming true quiet achievers. Not for them the “rewards” of power and greed, nor the “joys” of litigation! Those for whom the conditions in engineering are not to their liking, do not become engineers and those that do then simply make those circumstances self-perpetuating. The engineering profession self-perpetuates its image as that of talented people and quiet achievers, maybe - but rather socially challenged as a whole.

Whatever the reason why engineers do not enter public life in Australia, it is certainly nothing inherent in engineering that should stop them from doing so. The examples of engineers in other countries provide ample evidence of that.

by R. A. Zakarevicius

4.2. Global Warming by Dissipating Unsustainable Resources

The world, as we know it, is in the process of irreparable change from global warming. The two main causes of greenhouse gas emissions are coal-fired power stations and oil-fired motor vehicles. Nature required millions of years to create the world's stores of coal and oil and yet they will no longer exist at the rate they are being dissipated. What a way to use irreplaceable resources to damage our earth's environment.

What justification have we to leave our earth irrevocably damaged by stupidity and lack of foresight? Should this be the heritage we leave to future generations?

The world desperately needs a sustainable approach that would undo our present prolificacy and yet be able to meet society's energy requirements. The two key segments of such a strategy would be replacing oil-fired vehicles and the use of renewable generation.

1. Replacing oil-fired vehicles

Growing numbers of vehicles choke city roads and their noise and their emissions affect community health incurring extra health costs, on top of heavy governments spending on expressways and tunnels. This approach has only aggravated traffic congestion, increased emissions and worsened community health. On top of this, with peak world oil production, the price of oil is steadily increasing and this will soon make oil-fired vehicles too costly to run for growing numbers of car owners.

The solution – oil driven cars progressively replaced by electric vehicles (EV), with spare EV battery banks at service stations and domestic residences. Electric vehicles produce no emissions, waste no energy when stationary, are silent and can have downhill regenerative braking. Not only would this reduce

greenhouse gas emissions but Government expenditures on community health would be reduced. Instead of spending money on expressways and tunnels, Government funding would be directed to improving public transport and reduce our need for private vehicles.

2. Transition from coal-fired power stations.

This transition requires investment in renewable energy - solar, wind and tidal power. Renewable sources can only generate at restricted periods, as for example, solar energy is only available in daytime whereas electricity demand is also required during the night. Energy storage can overcome this problem, by being charged during the day and meeting electricity demand at other times. Thus, spare EV battery banks, located in domestic residences, could store energy from rooftop solar cells. In addition, Government could introduce electric buses when improving public transport and the additional energy storage would facilitate the introduction of more renewable energy. This strategy would, at the same time improve electricity supply reliability to the community and gain savings.

The abyss of global warming and the dissipation of irrecoverable resources can only be prevented when we, every one of us, recognize the threat and press for prompt responses. Are our Governments up to the challenge?

by Walter Lachs

4.3. Body Machine Interface – Remapping Residual Mobility of Disabled People to Control Robots

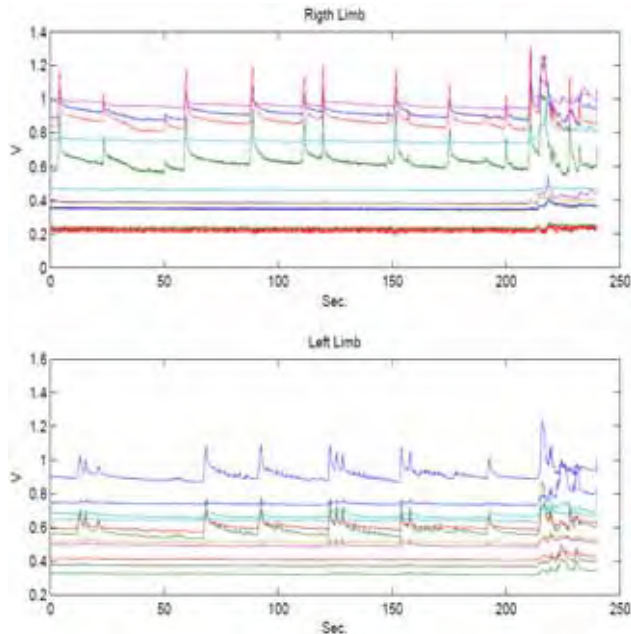
In a world first, a team of engineers spanning Australia (Virtual reality Lab, Macquarie University), Italy (Centro E Piaggio, University of Pisa) and USA (Robotics Lab, Rehabilitation Institute of Chicago), have invented a robotic wheelchair that is controlled by a sensor shirt.



Wheelchair bound patients who have reduced mobility due to major incidents, such as stroke or spinal cord injuries, have limited choices when it comes to controlling their wheelchair. Traditional wheelchair controllers, such as hand controlled joysticks and chin controls, are highly prescriptive dictating to the user how they can interact with their wheelchair.

The use of a sensor shirt as a controller is a major step

forward because the user can teach the shirt how to control the wheelchair based upon their residual mobility. For example, a user with upper body mobility could train their shirt to use upper motions to guide their wheelchair. When the sensor shirt replaces the conventional controller users are rewarded with a high degree of personalization to navigate their wheelchair.



Users are required to tune their sensor shirt in a virtual reality environment before using it to control their wheelchair in the real world. As a user's mobility improves or wanes their sensor shirt can be retrained accordingly.

For more information, please visit Visor Research Lab:
<http://www.ics.mq.edu.au/~isvr/projects.htm> and
MIT Technology review:
<http://www.technologyreview.com/Biotech/17803/>
by Tauseef Gulrez
PhD Student
Macquarie University

4.4. New Standard to Keep Watch on Expensive Items

An IEEE working group began in February 2007 to develop a standard for a new RFID tag-tracking technology that fits into a previously little-served niche. The so-called RuBee communications protocol was created to reliably track a relatively small number of expensive items.

RuBee was developed by Visible Assets Inc. of Mississauga, Ont., Canada. The company specializes in tracking things in real time—a task it calls real-time asset intelligence. Visible Assets has developed numerous hardware and software products that track the location of pharmaceuticals, medical instruments, industrial and military equipment, and consumer electronics.

4.5. High-Voltage Laboratory at CSIRO

Dr Vincent (Vic) Morgan, IEEE Life Fellow, was honored by the National Measurement Institute, on 15 May 2007 by having its High Voltage Laboratory located at West Lindfield (NSW) named after him in front of a group of his associates, family and visitors. The Laboratory was officially opened by CSIRO in 1979. It is now operated by Dr. Juris Rungis.



Dr Vincent Morgan is second from the left with his wife, Jeanette.

Dr Vincent Morgan was honoured by the IEEE Power Engineering Society (PES) in 1988 with the Herman Halperin Award for Transmission Distribution.
by Jim Vasseleu

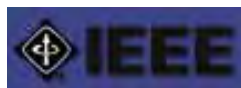
5. Technical Meetings & Conferences

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.

2007	Event	Speaker	Host	Contact	Venue [ensure you re-confirm beforehand]
28/06/2007	Sustainable Energy SOLAR TOWER	Roger Davie	Joint (EA)	George Fox 9449 8536	8 Thomas Street, Chatswood
12/07/2007	Introduction to Safety Engineering	Mr Keerthy Mysore	Joint (IET)	John Engle	8 Thomas Street, Chatswood
17/07/2007 - 20/07/2007	Power Systems Workshop [not endorsed by IET, IEEE or EA]		Private	psworkshops@weicon.com.au	Contact vendor.
26/07/2007	EEG & BRAINWAVES - Cross-over between Medicine and Electronics. [This is a PRACTICAL SESSION]	Dr Phil King (Medicine) & Assistant	Joint (IEEE)	David Burger	8 Thomas Street, Chatswood
26/07/2007 - 27/07/2007	Electrical Engineering Practice module 1 - Planning [fees apply]		EEA	phone: 03 93269777	Contact vendor.
2/08/2007	Software Engineering	James Moore	EA/ACS	Christopher Skinner Mob: 0414-990-834	
9/08/2007	The relevance of the National Measurement Institute to engineering, with reference to BIPM.	Barry Inglis	Joint (EA) & Metrology Society	John Engle	8 Thomas Street, Chatswood
16/08/2007	35th Anniversary Dinner - IEEE in Australia. [\$40 fee pp applies]	IEEE Life Members Sponsored Function	IEEE	John Robinson	Royal Sydney Yacht Squadron, 33 Peel Street Kirribilli 2061 - After hours parking is OK
18/08/2007	ENGINEERING WEEK - Start		Joint		http://www.engineeringweek.org.au/
23/08/2007	Sustainable TRANSPORT, incl EV.	Roy Leembruggen and 5 other speakers.	Joint (EA)	Ian Kennedy	8 Thomas Street, Chatswood [SEMINAR]
23/08/2007 - 24/08/2007	Electrical Engineering Practice module 2 - Design Principles [fees apply]		EEA	phone: 03 93269777	Contact vendor.
27/08/2007 - 30/08/2007	AusWireless '07 - Broadband and Ultra Broadband. [Fees may apply].		IEEE Comsig	Dr Johnson Agbinya, agbinya@eng.uts.edu.au	Crowne Plaza Hotel, Sussex St, Darling Harbour
28/08/2006	ENGINEERING WEEK - Complete		Joint		richard.barnes@hyderconsulting.com
12/09/2007	Nanotechnology Seminar		EA Illawarra	Bob Wheway	Contact Engineers Australia Illawarra/Sutherland directly.
13/09/2007	POWER BLACKOUTS AND LIABILITY FOR ECONOMIC LOSS OR INJURY	Ron Stillman	Joint (IEEE)	Antony Zaglas	8 Thomas Street, Chatswood
21/09/2007	Engineering Excellence Awards		EA		check EA website
27/09/2007	Technical Systems for Supply Chain (RFID)		Joint (EA)	Peter Hitchiner	8 Thomas Street, Chatswood [SEMINAR]
27/09/2007 - 28/09/2007	Electrical Engineering Practice module 3 - Power Quality [fees apply]		EEA	phone: 03 93269777	Contact Vendor
28/09/2007	IET AGM Dinner		IET	John Engle	University & Schools Club.
11/10/2007	TBA		Joint (IET)	John Engle	LUNCHTIME Lecture, 570 George St, Sydney (Midday for 12:30 start - 2pm)
17/10/2007 - 19/10/2007	ISCIT 2007, 7th symposium on Communications and Information Technologies. [Fees may apply].	http://www.elec.uow.edu.au/ISCIT2007/	IEEE Comsig	Eryk Dutkiewicz University of Wollongong, NSW 2522 +61 2 42214650 eryk@uow.edu.au	Crown Plaza Hotel, Darling Harbour.
25/10/2007	TBA		Joint (IET)	John Engle	8 Thomas Street, Chatswood
25/10/2007 - 26/10/2007	Electrical Engineering Practice module 4 - Earthing Systems [fees apply]		EEA	phone: 03 93269777	Contact Vendor.

The 2nd International Conference on Wireless Broadband and Ultra Wideband Communications - AusWireless'07



The 2nd International Conference on Wireless Broadband and Ultra Wideband Communications, AusWireless'07, will be held on 27-30 August 2007 at the Crowne Plaza Hotel, Darling Harbour, Sydney. The Conference is organized and sponsored by the University of Technology, Sydney and is also sponsored by the IEEE, NSW Section.

For further information, please contact Dr Johnson Agbinya, UTS, Faculty of Engineering,
E-mail: agbinya@eng.uts.edu.au Phone: 02 9 514 2495

CONFERENCE SCOPE

Wireless communications is a field of explosive growth, development, and application. AusWireless'07 covers areas of research, including multi-disciplinary and technically converging areas, which will enable the creation of future broadband wireless communication systems, networks and services.

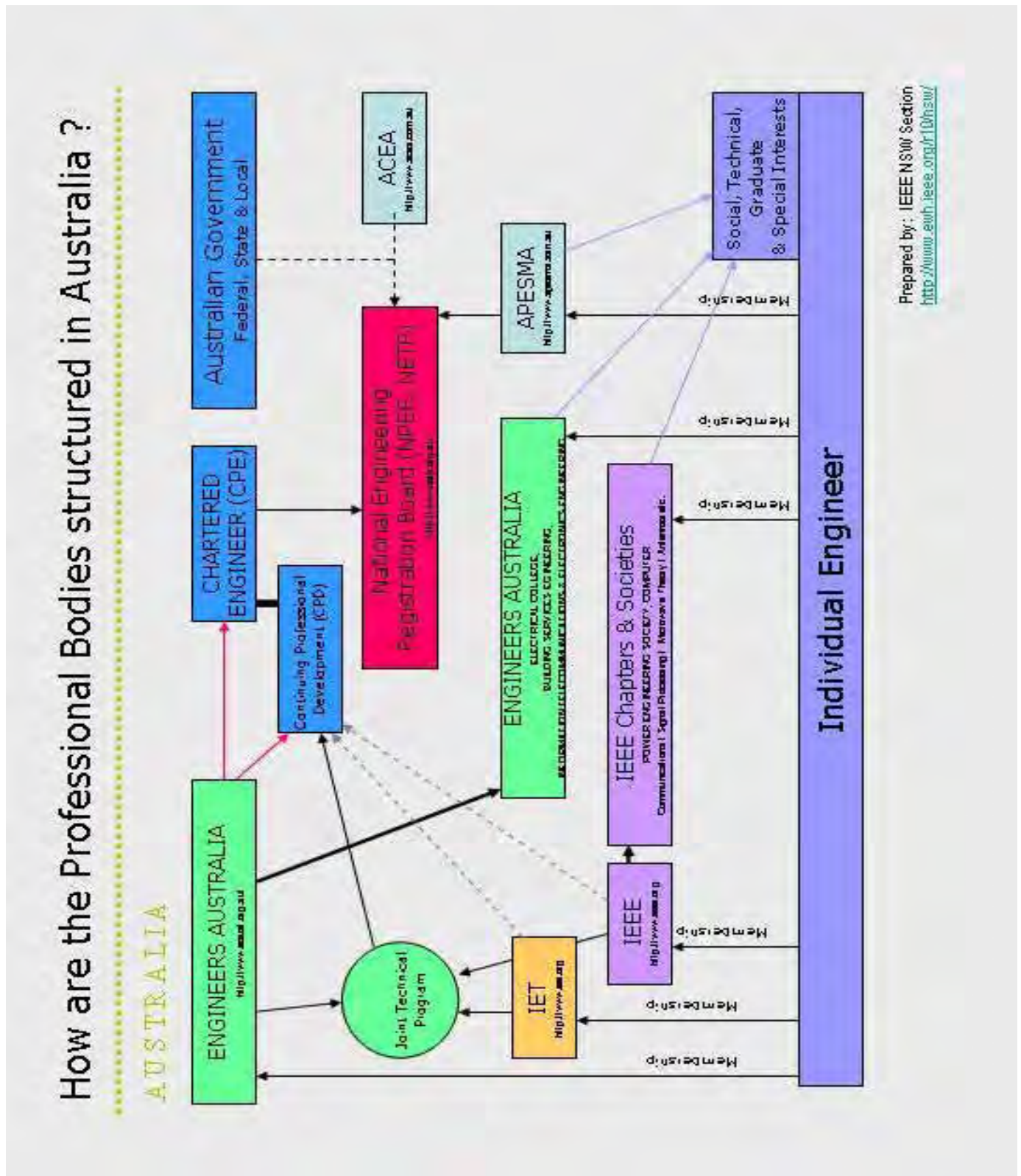
TOPICS

Technical papers describing original, previously unpublished research results are solicited. Specific topics of interest include, but are not limited to, the following:

- Ultra Wideband Systems
- UWB communication theory
- Ultra wideband antennas
- UWB Applications
- Ultra Wideband short range communications
- UWB Signal Processing
- UWB Synchronisation, modulation & detection
- UWB MAC, multiple access and coding
- UWB channel modeling & measurements
- Wireless Ad Hoc Networks
- Wireless Broadband Networks
- Wireless Network Protocols
- Wireless Network Congestion Control
- Wireless Network MAC
- Wireless Mesh networks
- Wireless Personal Area Networks
- Wireless Metropolitan Area Networks
- Wireless Wide Area Networks
- Wireless Internet
- Wireless Sensor Networks
- Wireless Broadband Devices
- Gigabit Wireless
- Millimeter wave & terahertz applications
- Millimeter Wave Antennas
- Propagation and Coexistence
- 802.xx Standards and Techniques
- All IP Networks
- Mobile Broadband Wireless Communications
- 3G and 4G cellular communications
- GHz Multiple System Spectrum Sharing Compatibility
- WiMAX, Zigbee, Wi-Fi
- Bluetooth, RFID
- Spectrum management
- Cognitive radio systems
- Software defined Radio
- Low Power Mobile Radio Techniques
- Advanced Broadband Wireless Communication Systems
- MIMO Systems
- Space Time Coding
- Multiple Antenna Systems
- Advanced Channel Coding including Turbo and LDPC Techniques
- Channel Estimation
- Channel Modeling
- Channel modeling and measurement
- Power Control Techniques
- Combined Satellite, Wireless and High Altitude Platform Techniques
- Unmanned Aerial Vehicles (UAV) and Unmanned Ground Vehicles (UGV)
- HSDPA
- Peer-to-Peer networks
- OFDM
- DS-CDMA and FH-CDMA
- Spread Spectrum Communications
- Synchronisation
- Equalization
- Short Range High Data Rate Communications
- Protocols for Broadband & Wireless IP Networks
- Cross layer protocol engineering
- Opportunistic scheduling & transmission
- Medical Imaging and tracking
- Broadband Wireless Applications
- Broadband to the home
- IMS, VoIP
- Broadband Services (Video conferencing, MMS, Presence, network games)
- Simulation Methods
- Broadband System Security

6. The Relationships with the Professional Bodies in Australia

Attached is mud-map to illustrate how the professional engineering bodies in Australia are associated.



7. The 35th Anniversary Dinner Acceptance Form

The 35th Anniversary Dinner

Venue: Royal Sydney Yacht Squadron, 33 Peel Street, Kirribilli, NSW 2061
Date/Time: Thursday 16 August 2007 / 6:30pm (Dinner at 7pm)
Parking: Limited, available off street and in the Club.
Cost per person: \$40

The 35th Anniversary Dinner

Venue: Royal Sydney Yacht Squadron, 33 Peel Street, Kirribilli, NSW 2061
Date/Time: Thursday 16 August 2007 / 6:30pm (Dinner at 7pm)
Parking: Limited, available off street and in the Club.
Cost per person: \$40

Name:..... Member No:.....

Partner:..... Payment: \$40 / \$80*

Tel: (H).....(W).....(M)..... Food: Vegetarian Yes / No*

Please RSVP and send cheque to:

John Robinson robboots@bigpond.net.au, P O Box 95, Lane Cove NSW 1595

For electronic B-Pay facilities, please e-mail David Burger k3hz@ieee.org

* Delete where necessary

8. New South Wales Section Committee Nomination for 2008

The Nominations Committee invites members to submit nominations for appointment for the 2008 NSW Section Committee with the form below not later than **30 September 2007**. All nominations for NSW Section Committee members will be considered at the Annual General Meeting, to be held on 30 November 2007, at which all the 2008 Office holders and Committee Members will be confirmed.

To date, the following NSW Section Committee nominations have been received for:

D Burger, K Chin, R Curtis, K Esselle, E Fong, C McGregor, G Gwilliam, W Lachs, L Narasimhan, P Ogunbona, B Poon, F Rahman, S Reisenfeld, J Robinson, A Sanagavarapu, D Soetanto, D Tien, G Town, J Vasseleu, R Zakarevicius,

Please detach-----

2008 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

9. 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 2100 IEEE members in NSW.

For advertising in *Circuit*

Please contact:

Eddie Fong at +61 (0)4 13777511 or 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

Volume 30 Issue 3

November 2007

Contents

Item		Page
	<i>Editorial</i>	1
1.	<i>Messages From The Chair</i>	1
2.	<i>News In Brief</i>	2
3.	<i>Chapter News</i>	4
4.	<i>Technology & History</i>	6
5.	<i>Technical Meetings & Conferences</i>	8
6.	<i>IEEE NSW AGM Reservation</i>	9
7.	<i>Continue to Receive CIRCUIT by Post</i>	10

Editorial

As the year 2007 is drawing to a close, may I take this opportunity to wish you a Blessed Christmas and a rewarding year ahead.



Eddie Fong eddiefong@ieee.org
Circuit Newsletter Editor
NSW Section

1. Messages from the Chair

Dear members

As volunteers, the pressure of time and work influence us constantly throughout the year, and circumstances demonstrate that we need to now actively canvass interested people to participate in the IEEE committee and Chapter groups next year.

If you are unfamiliar with the tasks, don't let that deter

you, as there is a lot of positive support available from many of the others who have undertaken these roles in the past.

Of particular interest are the roles around the special interest groups / Chapters, and any assistance in securing speakers, presenters or workshops in your choice field would be very welcome. While we have a list of nominations elsewhere in this newsletter, it does not preclude you from expressing interest or participating.

One of the big challenges faced this year is to lock in some value back to our IEEE members here in NSW, especially with regard to recent proposals for IEEE NSW university scholarships and the IEEE NSW Post-graduate Gold Medal. While neither of these proposals was accepted by the current committee, it does not mean we do not continue to try and add value to you as our membership. While this inaction is something that I find personally very short sighted, I acknowledge that as a committee, the joint committee decision is the one that prevails.

I will continue to canvass for proposals to utilise our financial reserves to benefit members until my term as Chair expires.

Have a safe and prosperous festive season.
Regards,



David Burger k3hz@ieee.org
Chair
NSW Section

2. News in Brief

2.1. The 35th Anniversary Dinner

The 35th anniversary dinner was held on 16 August 2007 at the "Royal Sydney Yacht Squadron" Shell Cove Room overlooking the Harbour and Bridge, 33 Peel Street, Kirribilli, NSW 2061.

The dinner was well attended and we were honoured to have Janina Mazierska, IEEE Region 10 Director 2007-2008, to celebrate this joyous occasion with us.



2.2. 2008 NSW Section Committee Nominations

1. David Burger
2. David Tien
3. Antony Zaglas
4. Eddie Fong
5. Mark Lee
6. Vassilios Agelidis
7. Kim Chin
8. Karu Esselle
9. Mark Gordon
10. Graeme Gwilliam
11. Walter Lachs
12. Kate Carruthers
13. Bruce Poon
14. Sam Reisenfeld
15. Faz Rahman
16. John Robinson
17. Ananda Sanagavarapu
18. Danny Soetanto
19. Ramutis Zakarevicius
20. Graham Town
21. Lakshmi Narasimhan
22. Philip Ogunbona
23. Ali Hellany
24. Candice Gilmore

2.3. Membership Development

During the year of 2007, our total active membership in NSW section is around 2,300 with student members around 350. A drop of 3% and 13% respectively in comparison to the same period last year.

Life members has increased from 49 to 52 while Senior members / Fellows have increased from 148 to 156. An increase of 6% and 5% respectively in comparison to the same period last year.

Female members has a slight increase with current number at 161. This is a great to see.

To promote IEEE further and to increase our membership number, we have carried out a number of actions including:

- 1) To reactive those inactive student branches.
- 2) To re-introduce our 200 free student memberships for 3rd, 4th year and postgraduate students for 2008.

Any student members who would like to be involved in the student branches committees and any members, especially academic staff, who would like to be their mentors, please contact Mr Mark Gordon (student activities co-ordinator) or myself to register your interest.

There are many of our members who are now qualified to be senior members. If you are interested to upgrade your membership grade, please do not hesitate to contact me at 0414 662 766. There are no additional costs involved !



Bruce Poon adsphere@optusnet.com.au
Membership Development Chairman
IEEE NSW Section

2.4. Welcome to Our New Members and Upgraded Members

From June to October 2007, we have the following

new members or newly upgraded members:

Member Grade

1. BENJAMIN P HAINES
2. PETER DALMARIS
3. NEJHDEH GHEVONDIAN
4. GREG J HODGE
5. IAN E ATKINSON
6. CHRISTOPHER G ARMSTRONG
7. KAUSHALYA PREMADASA
8. LIXIANG XIONG
9. EHSSAN SAKHAEI
10. ABDUR R SIKDER
11. STEFAN MARTIN
12. LI CHU
13. TIMOTHY P BOURKE
14. ANDREW J WROE
15. TONY YOUNG
16. YI-CHIEN VITA TSAI
17. JITHIN KESAVAN
18. NICHOLAS J MULDOON
19. ASTRIA N IRFANSYAH
20. KAREN MATHER

Associate Grade

1. ENG SAMARTHA BIJUKCHHE TONY YOUNG

Student Grade

1. MUHAMMAD S NAWAZ
2. SHOEB SARKAR
3. JAE H CHOI
4. DANIEL GRACE
5. ZHIYU XI
6. JIACHUAN LI
7. ENG MOHAMED O AL-JAAFREH
8. FAZIRULHISYAM HASHIM
9. MICHAEL ANGELO A PEDRASA
10. SHONEET P SINGH
11. VIKAS JOHRI
12. STEVEN WOODHOUSE
13. TUAN H THI
14. JACK W TSAI

2.5. IEEE NSW Section Web Master Wanted

We are still looking for volunteers to step out to provide the NSW Section in managing the NSW Section Website. Those interested, please contact David Burger k3hz@ieee.org.

2.6. 4th IEEE R10 Student Congress 2008

The fourth IEEE R10 Student Congress 2008 from 28 to 30 January 2008 will be held at SSN College of Engineering, Chennai, India and will be organized by the IEEE R10 (Asia pacific) SAC Committee and IEEE Madras Section. The idea of the Region 10 Student Congress (R10SC) was first mooted in 2001 and successfully executed in Singapore (2002), Hong Kong (2004) and in Beijing (2006). The fourth congress has come to India, which hosts above 377 student branches out of the 516 student branches in the region. This will be a great opportunity for student volunteers from all the countries in Asia-Pacific to come to India, interact and get to know each other in a better way, technically, professionally and culturally. The fourth student congress had been planned in a bigger way, with an attendance of around 300 participants from across Asia-Pacific. The organizing committee has chalked out a very exciting and entertaining program combining serious technical and leadership lessons with fun filled activity sessions.

The R10 SC 2008 will provide an opportunity for the Students and young professionals in building their career and to establish networking with other peers in the academia and the industry as the congress is in conjunction with GOLD (Graduate Of the Last Decade) and WIE (Women in Engineering) congresses. Several international eminent speakers from IEEE, Region 10, industry and academia have confirmed their participation to share their rich experience. This Congress will also feature workshops and interactive sessions. During the congress, student branch and GOLD/WIE (Women in Engineering) affinity group leaders will be working together on a joint effort to discuss the aspects of Student Branch organization and leadership, as well as the transitional issues of GOLD/WIE.

Registration will be on first come first served basis, restricted to 200 delegates for Student congress. A registration fee of **US\$ 80 (US \$ Eighty, Rs. 3200/- for Indian Delegates)** will be charged per student delegate, which includes accommodation for 3 nights and food during the congress. The registration fee should be paid by demand draft payable to "R10 Student Congress 2008" payable at "Chennai". Email id of student congress: r10sc2008@yahoo.com

2.7. IEEE Membership Fee 2008

IEEE membership dues for 2008 will rise to US \$126. The \$3 increase over this year's dues is based on the rate of inflation in the United States as measured by the Consumer Price Index.

2.8. IEEE Women in Engineering Launches Magazine

The first magazine to focus on issues facing women who study or work in the IEEE's fields of interest is set to debut in December. Sponsored by the IEEE Women in Engineering group, the electronic *IEEE Women in Engineering Magazine* will be published twice next year and, if it's a hit, quarterly thereafter.



"Our most important goal is to encourage women from a diversity of cultures to pursue a career in engineering and stay with it," says Karen Panetta, the editor in chief, who also chairs WIE's oversight committee.

The first issue will be about 40 pages, Panetta says, with articles covering the political and international issues surrounding technology, including cultural differences in the workplace. Also planned are profiles of women with successful careers in science, technology, engineering, or mathematics, as well as coverage of educational programs that attract young women to those disciplines.

The magazine will be available as part of WIE membership, which costs US \$25 annually (<http://www.ieee.org/women>). A limited number of printed copies will be distributed to high schools and colleges.

3. Chapter News

3.1. EMBS Chapter

It has been a pleasure to continue to lead our NSW EMBS chapter through 2007. Throughout this year we have hosted on-site technical meetings at Biomedical companies, onsite technical meetings through regular University research seminar series and arranged for Distinguished Lecturers of IEEE to present. I hope that you have utilised these opportunities to network and expand your knowledge.

The IEEE EMBS flagship conference EMBC was held in Lyon, France in 2007. Details on the conference can be found at: <http://www.embc07.ulster.ac.uk/index.htm>. Our own Yan Wong, Student Development Founding Officer received the Best Student Paper award at the conference. It was great to be there to congratulate him on this great achievement!!

In the afternoon prior to the commencement of the conference the first EMBC chapter chairs meeting was held. I attended that meeting and was delighted to meet other chapter chairs and exchange ideas. As part of that presentation, the current chair of the Buenaventura, LA, USA chapter presented the outcomes of the IEEE Middle School Outreach program. That program has been highly successful in raising awareness for middle school USA students of career options in Biomedical Engineering. Further details can be found at: <http://www.bv-embs-chapter.com/Articles/MiddleSchoolOutreach.html>. We have opportunity to utilise these resources to run similar programs to primary and junior high school students in Australia. If you would like to be part of such a program in your local area, please contact our EMBS secretary Joanne Curry (jm.curry@uws.edu.au).

During the conference, in addition to presenting some of my recent research, I enjoyed hosting assisting in the organisation of Theme 12: "Career and Professional Development in Biomedical Engineering" as chair of a new track I established this year entitled "Women in Biomedical Engineering and Health Informatics". During that track some interesting statistics were presented based on a study performed in North America on demographics of students enrolled in Bachelors, Masters and PhDs in Engineering. Of significance for EMBS is that between 35-40% of students enrolled in Biomedical Engineering at Bachelors, Masters and PhD levels are women. This is the second highest percentage for Bachelors and Masters students for the portion of women, second only to environmental engineering. The ratio of women in Biomedical Engineering is the 3rd highest ratio at the PhD level. (More details at: Gibbons, M.T., 2006, "Engineering by the Numbers", *American Society for Engineering Education*, www.asee.org/colleges). The IEEE globally and within Australia, the percentage of female members is approximately 8%. Within the EMBS society this percentage globally and nationally is closer to 14%, almost double the average for IEEE generally.

This year has been a particularly busy one for me as I was awarded a prestigious Canada Research Chair in Health Informatics. As a result, my family and I have now relocated to the Greater Toronto area and I have commenced my Canada Research Chair role at the University of Ontario Institute of Technology (UOIT).

In the coming weeks, the NSW EMBS chapter will hold the AGM. I encourage you to become involved in the chapter and to take a role on the committee. I have found the experience rewarding and I have been delighted at the new colleagues and friends that I have met out of the process. Many feel that the Chair role requires a lot of time. I can report from personal experience that with the great team we have in NSW, with each person contributing towards their part, the

Chair role is not as laborious as many would think. If you would like to increase your network and get to know some great people in the biomedical area in NSW, then contact Joanne Curry (jm.curry@uws.edu.au) and get involved in the committee for the EMBS NSW Chapter.

During the year I have commenced mentoring three people through the IEEE Mentoring program. One person is located in Egypt, one in Mexico and the other in Japan. I have found the program rewarding and I encourage you to utilise this service as either a mentor or one who is mentored. It takes such a little time each month to be involved and provides such a great service for those being mentored.

I trust that as the weather gets warmer that you will feel more inspired to get involved and utilise the IEEE EMBS NSW chapter to assist you in your growth and development. I know that I am excited to have my first Canadian winter! I have already taken up a role as vice-chair in the Toronto EMBS Chapter and I hope to report in the new year on joint seminars and other initiatives that will utilise the AccessGrid technology.

Have a safe and enjoyable festive season.



Carolyn McGregor c.mcgregor@ieee.org
Chapter Chair (Founding Officer)
EMBS Chapter, NSW Section

3.2. Power Engineering Chapter



On September 14 a one day workshop on Energy efficiency and Demand Management was given by Scott Rouse P. Eng., MBA, CEM & CSDP IEEE PES Distinguished Lecturer and Managing Partner Energy @ Work, Toronto Canada. The three part workshop was held at the Sydney Mechanics School of Arts and was attended by nine people including A/Prof Trevor Blackburn of UNSW.

Scott also gave a lecture at Sydney University to about 20 and Staff on 13 September 2007.

I would like to thank Scott Rouse for the informative and knowledgeable presentation. His efforts were very

much appreciated especially considering his hectic schedule and the fact that he took time off work to visit Australia. He gave presentations in Singapore, Perth, Sydney and Melbourne. In Sydney he was also the keynote speaker at the EESA Conference held at the Novotel Brighton on 13 and 14 September.

A lecture by Dr Ron Stillman was scheduled for 13 September 2007 but had to be cancelled due to his hospitalisation. On behalf of PES and the NSW Section I wish Ron a speedy recovery and all the best for the future.

At present the committee is in the process of filling the Joint Lecture calendar for 2008. I extend an invitation to all those who are in a position and would like to give a presentation to contact myself or John Robinson with the relevant information so that we can make a submission to the organising committee and if successful organise a suitable time slot.

As I am stepping down at the end of the year John Robinson has kindly volunteered to represent NSW PES at the Beijing Region 10 PES Chairs meet 24 to 26 October 2007 as Secretary/Treasurer. I would like to thank John for volunteering his time. I believe that the training provided will be very valuable, especially if he is successful in becoming NSW PES Chair for 2008.

All PES Members are welcome to the AGM and Dinner is on 30 November 2007 and a new Chair and Committee will have to be elected.

PES Nominations for 2008 are:

Chair:	John Robinson Mark Gordon
Vice Chair:	Prof Vasilios Agelidis Dr Graeme Gwilliam
Secretary/Treasurer:	Mark Gordon Dan Candotti

I would like to thank all those who provided assistance during my term as NSW PES Chair and especially Dr Graeme Gwilliam, John Robinson, Mark Gordon and the NSW Section Chair David Burger, Executive and Committee. I would also like to thank Region 10 PES Rep Dr Subrata Mukhopadhyay and R10 PES South Region Rep Prof Lalit Goel for their assistance and help with the Distinguished Lecturer Program.



Tony Zaglas antonyz@ieee.org
Chapter Chair
Power Engineering Chapter, NSW Section

3.3. LEOS/CAS/SSCS Joint Chapter

Two technical meetings were held during the few months. The first was by Dr Ian Clarke of Optium Inc. on 14 June, speaking on the topic "Heroic Failures or how not to commercialize your optics". The second was by IEEE LEOS Distinguished Lecturer M. Selim Unlu on 29 June, speaking on the topic "Applications of optical resonance to biological sensing and imaging". Both meetings were very well attended.

The LEOS/CAS/SSCS joint chapter is fortunate to be hosting three further Distinguished Lecturers before the end of the year, as follows:

- 8 Nov., Eric Vittoz (IEEE SSCS Distinguished Lecturer)
- 22 Nov., El-Hang Lee (IEEE LEOS Distinguished Lecturer)
- 13 Dec., Tobi Delbruck (IEEE CAS Distinguished Lecturer)

Further details will be distributed as they become available.

Please note that the Annual General Meeting for the Sydney Chapter of LEOS will be held immediately prior to the NSW Section AGM. Please refer to the details elsewhere in this newsletter for the time and location of the AGM meeting. I do encourage nominations, either by email or in person at the AGM, and from any other members wishing to contribute their time and enthusiasm to the Chapter in 2008.



Graham Town
Chapter Founding Chair
LEOS/CAS/SSCS Joint Chapter, NSW Section

4. Technology & History

4.1. Observation In Depth

By Ivan Berger

Think
"observatory,"
and you
probably
visualize a
telescope
poking out of a
white dome on
a hilltop. But a
new generation
of
observatories
will be out of sight—beneath the seas.



A Neptune worker lowers a scientific instrument node into its orange support frame.

Permanent, unmanned, underwater observatories—connected to shore by cables that will bring in electric power and instrument-control signals and carry data back in real time—are being developed by Canada, the European Union, Ireland, Japan, Taiwan, and the United States.

Two such projects, Neptune and ESONet, were the subjects of papers at the IEEE Oceanic Engineering Society's two Oceans07 conferences. The first was held in June in Aberdeen, Scotland. The other takes place this month in Vancouver, B.C.

In some ways more is known about the surfaces of nearby planets and their moons than about the 70 percent of Earth's surface that lies beneath the sea. "Oceanographic research has been expeditionary, depending on ships and weather conditions and requiring periodic cruises to recover data from oceanographic instruments," says Chris Barnes,

professor emeritus at the University of Victoria, in

British Columbia. Canada's project director for Neptune, Barnes presented a paper on the topic at the June conference, and members of his staff plan to deliver papers in Vancouver.

There's been overfishing around the world "because we have a poor ability to monitor the fisheries," Barnes says. "Without a database of comparable observations taken over a long period of time, it's hard to understand such critical issues as global warming, acidification, and the collapse of fisheries, and to provide proper information to regulatory agencies."

For long-term measurements, scientists depend on satellites flying more than 32 000 kilometers overhead, but satellites are limited in their ability to see beneath the ocean's surface. That dependency is about to change—with the new cabled ocean observatories.

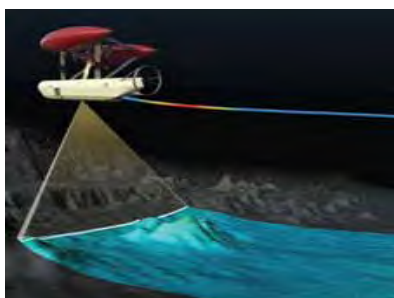
Europe's ESONet (European Seafloor Observatory Network) is the most ambitious of the many underwater observatories being planned around the world. Funded by the European Union and several member countries, ESONet comprises 10 permanent undersea observatories—from the Arctic Ocean to the landlocked Black Sea, including five in the Atlantic Ocean and three in the Mediterranean Sea. Closest to completion, though, is Neptune (Northeast Pacific Time-Series Undersea Networked Experiments), a joint U.S.–Canada project. Observatories being built by Canada should be operational in late 2008.

PLATE TECTONICS Neptune is more localized than ESONet. It is designed to monitor only the Juan de Fuca tectonic plate in the northeast Pacific off the coast of British Columbia, Washington, and Oregon. The smallest of the 12 major plates that make up Earth's surface, it's compact enough [200 000 square kilometers] that most tectonic events can be recorded, Barnes says.

"Neptune will be the world's first regional cabled observatory, with abundant power [10 kilowatts] and high bandwidth [10 gigabits per second]," he says. The observatory, he adds, will monitor plate tectonics and earthquakes; the overlying water column, including changes in nutrients and other chemistry; fluids, microbes, and gas hydrates in the seabed; ocean climate change and its effects on marine life; and the diversity of deep-sea ecosystems.

There are potential applications to other sectors, Barnes notes. For example, temperature measurements at different depths, needed for analyzing the effects of climate change, could also affect how fisheries are managed. And data from some instruments could be used for port security.

DATA IN 3-D Some of Neptune's instruments will sit on the seafloor, others in boreholes beneath it, and some will move up and down in the water. Underwater vehicles will investigate areas



Neptune will use underwater vehicles like this one to map the ocean floor

between fixed instruments, docking at the observatory to transmit data and receive new instructions from the onshore data center, and to recharge batteries. "Data will flow at gigabits per second to the Neptune Canada operations and data center at the University of Victoria and then on to scientists, industry, policy makers, and the public," Barnes says.

That's a big change from research-ship cruises, whose data doesn't reach shore until the ships dock, then is further delayed until results can be analyzed and published. "With regional cabled observatories like Neptune," says Barnes, "scientists will be able to respond to events as they occur. Teams of geological, chemical, physical, and biological oceanographers will receive the data simultaneously and work on interdisciplinary projects in real time." They'll also be able to control Neptune's instruments via the Internet, re-aiming cameras, for instance.

For some events, such as tsunami warnings, getting information in real time is vital. "Many oceanographic events—such as algal blooms, subsea volcanic eruptions, and tsunamis—are brief and difficult to record without a pre-existing network of real-time instrumentation and communication," Barnes says. Of great utility, such networks will also help establish a database of normal measurements for comparison, he adds.

The northern part of the network is the responsibility of Neptune Canada (www.neptunecanada.ca), a consortium of 12 universities led by the University of Victoria. In the United States, the project is part of the National Science Foundation's Ocean Observing Initiative. The University of Washington, Seattle, will manage its installation, and the University of California, San Diego, will handle its data infrastructure. The U.S. component should be operational in 2013 (www.ooi.washington.edu).

"Without long-term regional cabled observatories we will not get the data we need in time for sensible planetary management decisions," says Barnes. "Neptune is just the beginning. We'll see the wiring of the oceans spread from Canada to the United States and eventually to Asia and Europe."

5. Meetings & Conferences

Technical

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.

2007	Event	Speaker	Contact	Venue [ensure you re-confirm beforehand]
5/11/2007	IEEE NSW SECTION - Meeting		Antony Zaglas	(7:00~9:00pm) Seminar Room 1 - Library Gore Hill TAFE
6/11/2007 - 9/11/2007	The 5th ACM Conference on Embedded Networked Sensor Systems [Fees may apply].	http://sensys.acm.org/2007	Guoqiang Mao, School of Electrical and Information Engineering The University of Sydney	Swissotel Sydney, 68 Market St, Sydney, NSW 2000
8/11/2007	25kV Railway Electrification Systems	Jerry Jirasek, DOWNER EDI - Rail	George Fox 9449 8536	8 Thomas Street, Chatswood
11/11/2007 to 14/11/2007	Energy 21C Conference, Energy Transmission and Distribution. [Fees may apply].	www.energy21c.com.au	Waldron Smith 03 9645 6311 energy21@wsm.com.au	Sydney Convention and Exhibition Centre
13/11/2007	Terahertz Technology in Outer and Inner Space	Dr. Peter H. Siegel California Institute of Technology Jet Propulsion Laboratory	Dr. Ananda Mohan Sanagavarapu, ananda@eng.uts.edu.au	Please contact Ananda directly.
28/11/2007	History of the WRESAT Project	Kerrie Dougherty	02 92170417	12:30pm to 1:30pm, Powerhouse Museum, 500 Harris St, ULTIMO
29/11/2007	Engineers Australia AGM, ACS and Indian Institute Speakers		Amal Hanna	Check membership publications
30/11/2007	IEEE NSW AGM / DINNER / Presentations		Antony Zaglas	TBA (6:00pm to 10:00pm)
4/12/2007 - 6/12/2007	International Global Navigation Satellite Systems Conference 2007. (IGNSS) [fees may apply]		www.ignss.org	University of New South Wales, Kensington.
10/12/2007	Hybrid Electric and Fuel Cell Hybrid Vehicle Architectures.	Dr Kaushik Rajashekara, Rolls Royce Corporation	f.rahman@unsw.edu.au	TBA
Dec 2007	Wireless Sensor Networks - Conference. [Fees may apply].		Sam Reisenfeld	Date and venue to be confirmed.
4/2/2008	IEEE NSW SECTION - Meeting	IEEE	Secretary	(7:00~9:00pm) Seminar Room - Library Gore Hill TAFE (TBC)

EVENT OUTSIDE NSW

- 2008 IEEE International Conference on Technologies for Homeland Security(With technical assistance from the US Department of Homeland Security), May 12 - 12, 2008, Boston, MA, USA
- IEEE Region 10 Student Congress 2008 in Madras (Chennai), India on 28, 29 and 30 January 2008
- The 39th IEEE Power Electronics Specialists Conference will be held from 15 to 19 June 2008 in the island of Rhodes, Greece. The website of the conference is www.pesc08.org for more information.

6. IEEE NSW Section Annual General Meeting Reservation

IEEE NSW SECTION ANNUAL GENERAL MEETING

Date: Friday, 30 Nov 2007

Times: 6:00pm Individual Chapter AGMs
7:00pm NSW Section AGM
8:00pm NSW Section Dinner

Venue: The Boronia Grove, Epping (behind the Epping RSL Club, Epping, access through the car park between Epping Club and Coles store)-see <http://www.boroniagrove.com.au/contact.asp>



Contribution: \$35 per person (including drinks on table). Enclosed is payment of \$..... for persons

Name:..... **Tel:** (W)..... (H)..... (M)..... **Fax:**.....

Address:..... **Postcode:**.....

IEEE Membership number:

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

Kindly Post or fax by 21 November 2006 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

8. 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 2100 IEEE members in NSW. For advertising in
Circuit

Please contact:

Eddie Fong at +61 (0)4 13777511 or eddiefong@ieee.org