IEEE Newsletter

From the Editor

Welcome to the IEEE Newsletter for October, 2001. This newsletter covers events in the IEEE for the last six months of the year. It also discusses upcoming events in the IEEE. One of these events includes the Annual General Meeting, and election. I encourage you all to attend. If not, information is contained in this newsletter on how you can assign a proxy vote and still have your say in who the chair and treasurer of the QLD section will be next year!

I hope you all enjoy this issue of the newsletter. As always, if you have any comments on the content of the newsletter or suggestions for improvements, please feel free to drop me a line via e-mail at M.Cowling@mailbox.gu.edu.au.

Michael Cowling
Newsletter Editor, IEEE Queensland Section

IEEE QUEENSLAND SECTION E-MAIL LIST

Future IEEE Queensland Section Events will be broadcast via e-mail. Notification of the publication of this newsletter will also be done over e-mail.

All IEEE Members who have notified the IEEE of their e-mail address will be automatically added to the e-mail list. Other members may subscribe by sending e-mail to majordomo@ieee.org with the body of their message containing **subscribe qld-section.**

You may unsubscribe by sending an e-mail to majordomo@ieee.org with the body of the message containing
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Annual General Meeting 2001

DATE: Tuesday, 20th November, 2001.
TIME: 6:00pm – 7:00pm
VENUE: QUT, S Block, 9th Floor, Room S9.20

This is a reminder that the IEEE Queensland Section AGM is coming up soon: Tues, 20th Nov. The AGM will be held at 6:00pm at QUT in the S block on the 9th floor in Room S920.

Afterwards at 8:00pm, we will celebrate with a dinner at the Wang Dynasty, Southbank. The cost per person for this is $29.80. Please RSVP by e-mail to d.campbell@qut.edu.au.

Voting in the Chair & Treasurer
One purpose of the AGM is to elect the chair and treasurer for the following year. The Queensland section has gone through busy times, and the 2001 committee has been very active with good achievements. If you cannot come to the AGM on the 20 Nov, you may nominate as a proxy one of the Section Committee Members whom you entrust with your vote (see also who is eligible to vote). A sample for a proxy vote is on page 5. If you would like to cast a proxy vote, please fill in the details and make sure your IEEE number is included. Your vote will influence how the IEEE Queensland Section spends the membership fee money that you contribute.

Who can vote?
Any IEEE member who falls into one of the following categories is eligible to vote at the AGM:
♦ Member/Life Member
♦ Senior Member/Life Senior Member
♦ Fellow/Life Fellow

For information on office bearers who can cast a proxy vote for you, please see page 5.

IEEE QUEENSLAND SECTION
Chair's Report, 2001

Welcome to this, the third newsletter for 2001. We have had a successful year so far and hopefully the remainder of the year will be just as successful. Student functions have been organised at Griffith Gold Coast and at QUT with functions being planned at UQ and hopefully Griffith Nathan once we get the student branch there re-activated.

The Signal Processing Chapter sponsored a seminar given by Dr Justin Chuang of Bell Laboratories which was well attended. On October 11th, the Power Chapter is holding a seminar on solar energy applications where a PV powered solar chlorinator will be presented as well as the QUT electric vehicle.

Our AGM is planned for November and we would like to invite people to nominate for positions on the committee. The positions that are available at present are:
- Chair
- Vice-Chair
- Secretary
- Treasurer
- Member ship Co-ordinator
- Professional Activities
- Newsletter Editor

Where two or more people nominate for a position an election will be held. The AGM is tentatively scheduled for 20 November at QUT. More details will be advertised in the near future. We look forward to seeing you at either the AGM in November or at the seminars planned for the remainder of the year.

Ed. Palmer
Chair, IEEE Queensland Section.

Event Notification

Are you organising an event that is relevant to the IEEE Queensland Section? If so, e-mail the editor and let us know! We might be able to advertise it in the newsletter for extra exposure.

IEEE Queensland Section Website

http://www.ieee.org/queensland/

Website maintained by:
Peter Sutton
p.sutton@csee.uq.edu.au

Activities of the Griffith University Gold Coast Campus IEEE Student Branch

This term Griffith University Gold Coast Chapter will again be holding a membership drive combined with the School of Information Technology Forum. Free pizza and soft drinks will be provided to attract non-members and existing members. I will be there providing a run-down of IEEE membership benefits. Existing members are encouraged to come along as well for non-members to talk to. Representatives from the School of Information Technology will also be there to discuss current issues with students. The membership drive will be held on Wednesday 10th of October from 12-1pm in the Engineering Courtyard.

Jolon Faichney
Chair, GUGC IEEE Student Branch.

IEEE Computer Society Membership

If you (or somebody you know) is interested in joining the IEEE Computer Society or wish to know more about it, please e-mail the Chair of the Computer Society, QLD Section.

R.Sitte@mailbox.gu.edu.au

From the Chair of the Computer Chapter

There was a lot of activity in the Computer Chapter during the past quarter with the visit of Professor Dr. Werner Dirlewanger, who is chair of Applied Informatics at the Department of Mathematics and Computer Science in the University of Kassel, Germany. Professor Dirlewanger presented the seminar:

COMPUTER PROCESSING SPEED FROM THE 1940s TO PRESENT DAY
Why computer processing speed lags so much behind the speed of electronic components.

Professor Dirlewanger in his presentation on Computer Processing Speed.

In this presentation, Professor Dirlewanger spoke about how the speed of electronic components had increased in a fantastic way since the early computers of the 1940s. But did the computer processing speed increase in the same way? It did not! The reasons are (among others) in the changes of the DP system concepts, in changes in the understanding of what computer processing speed is and in the continuous growth of software complexity. In this seminar, the stages of this development and what was behind them were presented. Then the latest state was shown, followed by a forward look as far as possible.

The presentation was held at Griffith University, Gold Coast Campus, and was repeated at QUT a few weeks later for the Brisbane audience. It was a great success, with long and passionate discussions afterwards. The event was a great success, and we wish to thank Professor Dirlewanger for an inspiring presentation.

Professor Dirlewanger's audience for his presentation on Computer Processing Speed.

Another great success was the Workshop on Measurement of Information Processing, Systems Performance and Software Efficiency held by Prof. Dr. Werner Dirlewanger at the Griffith University Gold Coast Campus from the 27th to the 30th of August, 2001. The IEEE Computer Chapter, in conjunction with Griffith University, supported this workshop. The following modules were offered:

1. **Measurement and Rating of IP Systems Performance – Fundamentals**
Definition of the terms performance, component performance, measurement and methods, system performance (definition, terms, workload), present day system performance measurement methods (overview).

2. **Measurement and Rating of IP Systems Performance - Introduction to the ISO-DIN method - Part I**
Principles, the data model of the user entity, the workload parameter set. The ISO workload description method, the measurement procedure, the user emulator, analysis and verification of the measurement output data, calculation of the performance values, rating by use of the theoretical reference machine.

3. **IP systems performance measurement and estimation of SW Efficiency-Introduction to the ISO-DIN method-Part II**

Measurement series, the ISO measurement procedure, the "urn method" measurement of SW-Efficiency, ISO type workloads.

4. Performance of an ISO type measurement

I wish to thank all our members in the Computer Chapter for their support and interest in the activities held in 2001. Should you wish to present a seminar or a workshop or to contribute to the Computer Chapter's technical activities in any other way, please contact r.sitte@mailbox.gu.edu.au

With the AGM coming soon, I would like to remind you that you are invited to attend the AGM, to vote and to participate. If you are unable to attend the AGM, but still wish to influence the election, you can send an e-mail nominating your proxy to the chair of the Computer Chapter, or any other IEEE Queensland Section officer of your choice and whom you trust. However, such an e-mail must reach us by 19 November, prior to the AGM. A sample of the how to nominate your proxy is listed on page 5 of this newsletter.

Dr. Renate Sitte
Chair of Computer Society Chapter
Queensland Section

ATTENTION: Undergraduate Students

Two prizes are being offered this year to students producing outstanding thesis work in their undergraduate degree. The IEEE Student Prize is offered in all Fields of Electrical Engineering and Information Technology. The Mat Darveniza IEEE Student Prize is offered in the field of Dielectric Materials Technology and Applications.

All submissions must include a copy of the thesis (which will be later returned to the candidate), and be made by 30 November in the year of the contest to the IEEE Student Branch Counsellor(s) of the relevant university. The Counsellor(s) will select one thesis for submission to the Chair of the IEEE Queensland Section by 7 December.

IEEE Student Prize for the Best Final Year Undergraduate Thesis

Objectives
- To promote the interest of undergraduate students in paper writing.
- To promote an interest in electrical engineering and information technology.
- To promote IEEE membership.

Prizes
- Special certificate endorsed by the chair of the IEEE Queensland Section
- Cheque for $500.00

Eligibility
- Candidates must hold current IEEE student membership.
- Thesis must be submitted in the final year of study.

ICPADM - Mat Darveniza IEEE Student Prize for the Best Final Year Undergraduate Thesis

Objectives
- To promote the interest of undergraduate students in paper writing.
- To promote an interest in dielectric materials.
- To promote IEEE membership.

Prizes
- Special certificate endorsed by the chair of the IEEE Queensland Section and Professor Emeritus Mat Darveniza (Fellow IEEE)
- Cheque for $500.00

Eligibility
- Candidates must hold current IEEE student membership.
- Topics for the thesis must be in the field of dielectric materials.
- Thesis must be submitted in the final year of study.

Nominations for the above prizes will be accepted from each student chapter at the following universities (one per chapter):
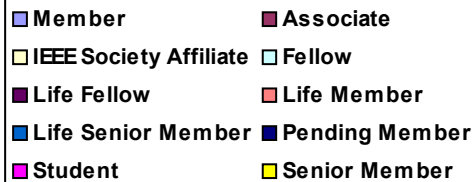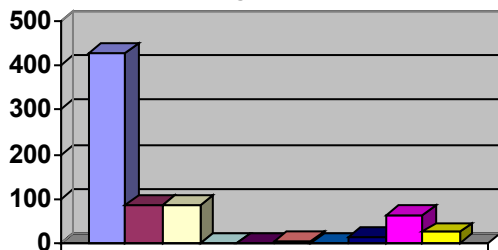- Central Queensland University
- Griffith University
- Queensland University of Technology
- University of Queensland
- University of Southern Queensland

Sample E-Mail to Convey Your Proxy Vote to an IEEE Office Bearer

PROXY VOTE

I, _____, with IEEE membership No. _____ nominate

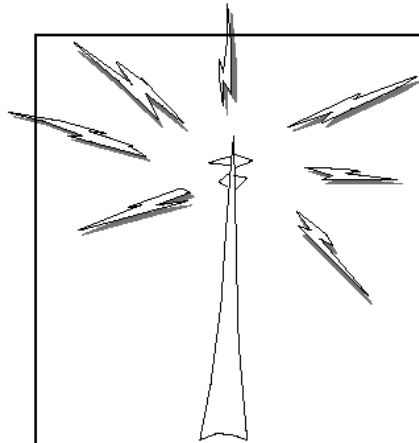_____ to vote on my behalf at the IEEE AGM in 2001.

Membership Statistics
August, 2001

- **Member**
- **Associate**
- **IEEE Society Affiliate**
- **Fellow**
- **Life Fellow**
- **Life Member**
- **Life Senior Member**
- **Pending Member**
- **Student**
- **Senior Member**

Whom can you nominate?

The following IEEE Office Bearers are able to cast a proxy vote for you at the AGM:

Dr. Ed Palmer	Dr. L. Vlacic
Dr. Renate Sitte	Dr. S. Sridharan
Mr. Simon Ellis	Dr. A. S. Dawood
Dr. Wageeh Boles	Dr. Duncan Campell
Dr. Peter Sutton	Mr. John McDonald

Workshop on Applications of Radio Science

0 2

Blue Mountains, NSW
20-22 February 2002

Please come along! Register on-line at
http://wars02.eng.uts.edu.au
or e-mail info@wars02.eng.uts.edu.au
or telephone Robin on (02) 9514 2460

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