IEEE

IEEE REGION 10 NEWSLETTER
NOVEMBER 2003

IEEE REGION 10 MEETING PENANG
October 10-11, 2003, Shangri-La Rasa Sayang, Golden Beach Resort, Penang, Malaysia

Approximately 80 delegates attended the delayed Annual General Meeting from all over the Asia Pacific Region. The meeting had been planned for April but was postponed owing to concerns about SARs virus.

Special guest was Vice President Rab Cleon Anderson. He shared his vision for IEEE with the meeting and emphasized the value of volunteerism and the ability of volunteers to build 'bridges' in the IEEE and general community. He was also passionate about GOLD and saw a great need to foster interest among the younger members of the IEEE community.

We discovered later in the year that Cleon had been elected to President Elect 2005.

Dr. Jung Uck Seo chaired the meeting and encouraged open discussion and build on the networking opportunities available during the meeting.

The IEEE ongoing business of 2003 and plans for 2004 were reported by each of the respective committee chairs.

A number of training workshops in a selection of operational areas was also presented for the benefit of new IEEE section chairs. The training workshops also helped to reinforce and share of some experiences and good practice from around the region.

A breakout session organised by Immediate Past 10 director Prof. Teck Seng Low covered four streams of interest. These were also of importance in setting direction for IEEE region in the next few years.

Participation in these workshops by all delegates was excellent. The emphasis was not so much on the results in this compressed exercise but to demonstrate the rigour of organizing strategic thinking.

The four work-streams covered were
- IEEE Products and Services
- Volunteerism
- Industry Relations
- Governance

The highlight of the meeting was the presentations of a number of IEEE awards to sections and individuals. The important photographs are featured elsewhere in the newsletter.

Presentations were made at a formal dinner to
- Bangalore section, accepted by Surendra Pal - outstanding section R10 2001
- Bombay section, accepted by Anthony Lobo - outstanding section R10 2002
- K Rajgopal, Bangalore section - outstanding volunteer R10 2002
- S Mukhopadhyay, Delhi section - RAB leadership 2002
- Madras section, accepted by S C Pal - 25th anniversary
- Calcutta section, accepted by K Bhattacharya - 25th anniversary
- Malaysia section accepted a RAB GOLD committee appreciation certificate in recognition and appreciation of leadership support of GOLD affinity groups.
- Lahore section were also awarded RAB GOLD committee appreciation certificate in recognition and appreciation of leadership support of GOLD affinity groups

Photographs taken during the event are featured elsewhere in the newsletter

Some changes to Region B-Laws have brought them more into line with current HQ By-laws. The main emphasis was on clarifying the functions for the Nominations and Appointments Committee. Additional changes were made for readability plus some language modification.

Student branch funding changes were also proposed to stimulate and sustain student branches. The region has a long history of start-ups of student branches that are not sustained. It has been the worst performing of all 10 regions.

These changes were introduced by the IEEE Region 10 executive committee and endorsed by the IEEE Region 10 committee

There was also an issue raised from the delegates concerning the formal and informal reporting relationships between student branches and sections. This will be carried forward for more discussion at the Student activity executive. Some sections have experienced problems with student branch awareness and accountability.

The Penang location provided pleasant and friendly surroundings for networking. The nearby evening markets and tailors also provided a worthwhile distraction for spouses and delegates in their free time. A cultural dinner and show was also organized for the final evening. This displayed the diversity of cultural dancing that Malaysia was famous for

Representatives of Bangalore, Thailand and Victorian sections presented Tencon 2003, 2004 and 2005 reports.

The Malaysian section has been busy and supportive of IEEE functions and this is the second region meeting hosted in four years.

From this meeting many of the delegates and distinguished IEEE leaders moved on to Tencon 2003 in Bangalore, India.

Vice President RAB, Cleon Anderson Presenting the 2002 RAB leadership award to Delhi's Subrata Mukhopadhyay	Surenedra Pal from Balngalore receiving the 2001 outstanding section award from Cleon Anderson
2002 Outstanding Section, Bombay section representatives - Balkrishna A Prabhu & Anthony Lobo receiving the award from Dr. Jung Uck Seo	Bangalore's K Rajgopal receiving 2002 outstanding volunteer award from Dr. Jung Uck Seo
Malaysian section representatives receiving RAB GOLD appreciation certificate from Dr. Jung Uck Seo	Calcutta representative Kesab Bhattacharya receiving 25th anniversary banner from Dr. Jung Uck Seo
Madras representative Suresh Chanderpal receiving 25th anniversary banner from Dr. Jung Uck Seo	

The IEEE Region 10 conducts two student paper contests (SPC's) every year, one for the Postgraduate (PG) and the other for the Undergraduate (UG) IEEE Student Members in the Region.

Postgraduate Section (PG)

Open to those IEEE Student Members with basic degrees in electrical engineering, electronics, computer science or any other field of interest of an IEEE Society, who are studying for a postgraduate course. Eligibility to enter the contest must be supported by a letter from the Student Branch Counselor and submitting the paper through the Student Activities Chair of the Section or the Section Chair.

Undergraduate Section (UG)

Open to IEEE Student Members undergoing an undergraduate course in electrical engineering, electronics, computer science or allied subjects. Eligibility to enter the contest must be supported by a letter from the Student Branch Counselor and submitting the paper through the Student Activities Chair of the Section or the Section Chair.

CONTEST RULES

1. **ELIGIBILITY**

Open only to IEEE Student Members in the Region. The papers may be on any engineering subject in the field of interest of IEEE (within the scope of IEEE transactions). The number of authors for one paper is limited to 3. All the authors must be students and the first author must be a student member of the IEEE. Supervisors are not allowed to participate in the contest.

2. **SUBMISSIONS**

Papers should be submitted electronically to your Section Chair (or the Student Activities Committee Chair) before the date determined by the Section. Each Section is allowed to submit only 3 papers. Deadline at Region 10 is **28th of February 2004**. Papers sent directly will be returned to Section Chair for endorsement. The attached form must be duly completed and signed by the first author and the Student Branch Counselor. If there are more than 3 papers from the Section, the papers should be screened first at the Section level and the best three papers from the Section should be sent to Region 10 SAC Chair by February 28, 2004. Papers should be submitted to the IEEE Section Chair at least 2 weeks before this closing date in order not to avoid delay in submission (or a suitable date as announced by your own Section).

Submissions should include the following:
- Completed Declaration form (see attached) with 1 hardcopy should be sent by airmail.
- 1 electronic copy (in MS Word or Pdf format) (this can be sent by email) or in a diskette.

Attached form duly completed and signed by Student Branch Counselor. You must include your IEEE student number (failure to do so will result in rejection of your paper).

3. **FORMAT**

The format of the paper is similar to any publications of IEEE Transactions or magazines (see any IEEE Transactions). The paper should be typewritten on one side only double column format using font of 10 (Times New Roman) on A4 size and should not exceed 10 pages including figures and tables. An electronic copy must also be submitted together with your hardcopy. You can check the format of IEEE Transactions / magazines.

- This should provide a well-structured, clear and concise presentation of the subject matter including an introduction, the main body and the conclusion with supporting tables and figures.
- Headings and subheadings should be numbered as in any of the IEEE journals.
- Figures and Tables should be neat and tidy, consecutively numbered, captioned and contained within the text at the appropriate places.
- Equations should be consecutively numbered with the number in parenthesis, opposite the equations.
- References suitably numbered, should be provided at the end with their reference numbers given within square brackets at the appropriate places in the main text.
- Appendices: Detailed mathematical proofs, development of equations etc. which are subordinate to the main argument in the body of the paper, should be given in the appendices, with reference in the main text.

4. **PRIZES**

Three prizes for the UG SPC and for the PG SPC will be awarded as follows.

(1). Undergraduate Contest

Prizes: 1st Prize: USD200.00 (+ certificate)
             2nd Prize: USD150.00 (+ certificate)
             3rd Prize: USD100.00 (+ certificate)
No formal ceremony for award (prizes to individual)

(2). Postgraduate Contest

Prizes: 1st Prize: USD300.00 (+ certificate)+ Travel grant to attend TENCON 2005
                                   (up to USD 1000)
             2nd Prize: USD200.00 (+ certificate)
             3rd Prize: USD150.00 (+ certificate)
    No formal ceremony for award (prizes to individual)

In the case of co-authored papers, the prize money shall be divided equally among the authors. If only the first author is an IEEE student member, the winners check will be sent to the first author only and only his/her name will be printed in the certificate.

Deadline: 28th February 2004

FOR FURTHER INFORMATION PLEASE CONTACT
REGION 10 STUDENTS ACTIVITIES CHAIR
Prof. Marzuki Bin Khalid,
Director, Center for Artificial Intelligence and Robotics (CAIRO)
Universiti Teknologi Malaysia, Jalan Semarak, 54100. Kuala Lumpur, Malaysia
Tel: +6-03-2691 3710/2690 4892, Fax: +6-03-2697 0815. Mobile: +6-019-384 4814
E-mail: marzuki@utmkl.utm.my
Website: www.cairo.utm.my/r10students/

STUDENT PAPER CONTEST

Name of Author/s:

First Author Name:................…………………………………………………………..

(IEEE Student Membership No: …………………………………………………………)

Email:…………………………………………………………………………………..

Correspondence Address:……………………………………………………………

………………………………………………………………………………………

Second Author Name:…………………………………………………………………

(IEEE Student Membership No: …………………………………………………………)

Third Author Name: …….…………………………………………………………..

(IEEE Student Membership No: …………………………………………………………)

Title of Paper: ……………………………………………………………………..

………………………………………………………………………………………

………………………………………………………………………………………

School/IEEE Student Branch:………………………………………………………

Section:……………………………………Country:…………………………………..

Declarations
On behalf of myself / my co-authors I certify that I am a student member of IEEE and still a student as of 28th February 2004. I certify also that I (and my co-authors) have written the paper by myself/ourselves and it has not been published in any journal or conferences.

Signature of First Author:……………………………………………………………

I certify that the author/s are students of this school and is still a student as of 28th February 2004.

Signature of Student Branch Counselor:…………………………………………………..

Student Branch Counselor Name:………………………………………………………

IEEE Region 10 Student Activity Announcements

1) Looking for student branch rebates? Visit the R10 SAC website http://www.cairo.utm.my/r10students/ for more information on submission of Annual plans and reports.

2) NUS (National University of Singapore) Student Branch won the Outstanding Student Branch Award for the year 2002. Congratulations and keep up the good work!

3) Larry K. Wilson Award 2002 goes to **Mr. Mustaffa Turra (India**). Congratulations!

4) Hong Kong is hosting the next R10 Student Congress in 2004. The tentative dates are in July 2004. The biennial R10SC aims to provide platforms for student branches leaders to network and be equipped with skills and knowledge to manage their student branches. More information will be released to your Section Chair by Jan 2004.

5) IEEE is holding a History Paper Contest in 2004. Winners will earn a trip to England to present his/her paper. Please visit the R10 SAC website for more information. http://www.cairo.utm.my/r10students/

6) UTM (Universiti Teknologi Malaysia) Student Branch is holding an International Exhibition (MIINEX) in August 2004. Participation is welcome! Please visit the official website http://www.ieee.org/minex for more information.

7) Results for R10 Student Paper Contest 2003 is out! Please visit the R10 SAC website http://www.cairo.utm.my/r10students/ for more information.

8) Student Activities Committee is looking for 6 judges for its Annual Regional Website Contest in 2004. If you have prior experience in judging webpages and you desire to volunteer your service, please contact R10 RSR Darrel Chong, dchong@ieee.org for more details.

9) Deadline for submission of URL for 2004 Student Branch Website Contest is 10th March. Branch Chairs may contact R10 RSR Darrel Chong for more information.

Darrell Chong

CALL FOR 2004 EAB AWARD NOMINATIONS

The IEEE Educational Activities Board is accepting nominations for the *2004 IEEE EAB Awards listed below.

- MERITORIOUS ACHIEVEMENT AWARD IN ACCREDITATION ACTIVITIES
- MERITORIOUS ACHIEVEMENT AWARD IN CONTINUING EDUCATION
- MAJOR EDUCATIONAL INNOVATION AWARD
- EMPLOYER PROFESSIONAL DEVELOPMENT AWARD
- SECTION PROFESSIONAL DEVELOPMENT AWARD

Complete information and nomination forms will be provided by 1 December 2003 on the IEEE EAB Awards web site at
http://www.ieee.org/organizations/eab/arc/awards/callnominations.htm.

The deadline for nominations is 30 April 2004. Award names and descriptions are provided on the web at
http://www.ieee.org/organizations/eab/arc/awards/descriptions.htm.

The IEEE EAB awards recognize and honour individuals, companies and IEEE Sections for major contributions to education in the areas of accreditation, continuing education, educational innovation, pre-college education, meritorious service to the IEEE EAB, professional development and related achievements that advance the practice of engineering and of engineering education that are germane to the mission of the EAB. Further information is provided on the web at

http://www.ieee.org/organizations/eab/arc/awards/index.htm.

Significant Move

Janina Mazierska will leave James Cook University in Australia (North Queensland Section) to take up a position with Massey University in New Zealand (NZ South Section) as Professor and Director of the Institute of Information Sciences and Technology in February 2004.

Janina came to James Cook University in 1987 and promptly set up the first Student Branch in Australia (1989) under the Queensland Section. In 1990 she moved to establish the North Queensland Sub-Section, and in 1992 she became the Foundation Chair of the North Queensland Section. In 2001 Janina moved to form a MTT/COMM joint Chapter (the 100th MTT Chapter) and has remained Chair of that up to the present.

During her 16 years in IEEE in North Queensland, Janina has contributed to the broader activities of the organisation. She served as the Australia Council Student Activities Chair, and later as the Region 10 Student Activities Chair. Currently she is the Region 10 Conference Coordinator. At HQ level she is a member of the IEEE Prizes and Awards Committee, IEEE Financial Benefits Committee, MTT-S Transnational Committee and AdCom Council on Superconductivity.

Janina is a very active researcher in the University system with her main interest is microwave characterisation of novel materials for wireless and other emerging technologies. The precise characterisation of dielectric properties across a wide temperature range including hot superconductors is needed to minimise mismatches and for noise reduction in microwave devices. Her research has been supported by prestigious and competitive Australian Research Council funding; she received four ARC Discovery grants in the last six years. Her record of publications is the highest in the School of Engineering at James Cook University.

At Massey University, Janina will head up an Institute IS&T, which embraces Computer Science, Information Technology, Telecommunications and Applied Statistics on the Palmerston North and Wellington Campuses with about 63 academic staff.

Janina's contribution to IEEE in North Queensland has been spectacular and inspirational for other volunteers in the organisation.   We are still trying to figure out whether it is the influence of liquid nitrogen that makes her appear super-cool, or whether it is the concept of hot superconductors that drives her to be over all the issues. We do know that there will be a bit of a vacuum in the NQ Section.

Mal Heron
Chair, North Queensland Section

TENCON 2003

Dr. Jung Uck Seo addresses the Tencon delegates	**Presentation of gifts to special guests**

Tencon 2003, the annual conference of IEEE Region 10, was organized by the IEEE Bangalore Section on behalf of Region 10, and was co-sponsored by the Indian Institute of Science. It was held in Bangalore on October 15-17, 2003, in Taj Residency Hotel, and the conference theme was "Convergent Technologies for the Asia Pacific Region". The Conference Committee consisted of Prof. H. P. Khincha, Prof. Lawrence Jenkins, Dr. Sunil Sherlekar, Prof. Y. N. Srikant, Dr. Kumar Sivarajan, Prof. A. Chockalingam, Prof. K. Rajgopal, Dr. Sridhar Mitta, Mr. S. V. Sankaran, Dr. Surendra Pal and Mr. A. Anoop.

The keynote address was given by Prof. V. Rajaraman of the Indian Institute of Science, who spoke on the theme of convergent technologies, with reference to the Asia-Pacific Region in general and to India in particular. The conference was honoured by the presence of Dr. Jung U. Seo, Director of Region 10, Prof. Seiichi Takeuchi, Director-Elect of Region 10, Dr. Govardhan Metha, Director of the Indian Institute of Science and Mr. D. B. Inamdar, the Minister of Science and Technology of the Government of Karnataka State.

In total 825 papers were submitted to the conference of which 312 papers were accepted for presentation, either as regular papers or as poster papers. Many papers of acceptable quality could not be included due to space and time constraints. The papers were organized in 35 sessions in five parallel tracks, and belonged to the broad areas of Communications, Signal and Image Processing, Multimedia, Power Systems, Networking, Microelectronics, Robotics and Control, Speech Processing, and Computer Architecture and Algorithms. The poster session had 79 papers. The plenary talks were as follows

i)   Challenges in Computational Biology, by Dr. M. Vidyasagar of Tata Consultancy Services

ii)   Wireless Networks: From Information Transfer to Sensing and Control by Prof. P. R. Kumar of the University of Illinois at Urbana-Champaign and

iii)   Multi-Service Metro Optical Networks by Dr. Rajiv Ramaswamy of Cisco Systems. Mr. Roland Haas of Daimler Chrysler made a presentation on Software Re-Use in Automotive and Embedded Applications and Mr. T. P. Zacharaiah of Intel on Testability in VLSI.

Attendance at the sessions was at a high level, 85 % of the papers were presented, and there was active participation from the attendees. Totally 480 delegates attended the conference; of these, 85 were from outside India. Apart from the technical program, the conference had a cultural evening, a banquet and a spouses program.

The tutorials held on 14 October 2003 were as follows:

i)   Embedded System-on-a-Chip Design by Dr. C. P. Ravikumar of Texas Instruments,

ii)   Design Patterns by Prof Y. Narahari of the Indian Institute of Science,

iii)   Wireless Technologies by Prof. David Koilpillai of the Indian Institute of Technology, Madras,

iv)   Enterprise Web Services and Applications by Dr. Sandeep Chatterjee of Cyndeo Technologies,

v)   Active Noise Control by Dr. S. V. Narasimhan of the National Aerospace Laboratory, and

vi)   MEMS and Applications by Prof. Navakanta Bhat and Mr. Sanayu Pamidighantam of the Indian Institute of Science. There was 230 participants in the six tutorials, most of them being engineers employed in the computer and communications industries and the research establishments in Bangalore.

According to Prof. Lawrence Jenkins technical quality of TENCON 2003 and the number of attendees exceeded expectations of the organizers. The conference can be viewed as one of most successful Region 10 conferences in the recent past. The Bangalore Section hopes that visiting delegates carried back pleasant memories of their stay in Bangalore.

NEWLY ELECTED IEEE 2003 FELLOWS - INSIGHTS

Dr Michael Gibbard FIEEE

Michael Gibbard received the B.Sc.(Eng.) degree from the University of the Witwatersrand, S.Africa, in 1957, the Certificate in Bus. Admin. from the London School of Economics in 1961, and a Ph.D. degree from Queen's University, Canada in 1968. In 1958-60 he worked for Associated Electrical Industries, UK. In the period 1961-5 he was with the System Design Branch of the Snowy Mountains Hydro-Electric Authority, Australia, and was involved in studies on the interconnected power system. In 1969-70 he worked for Imperial Chemical Industries, Australia. From 1970 to 2002 he was at The University of Adelaide, Australia, with special interests in control and power systems. During 1975-6 he spent a year with Systems Control Inc. in Palo Alto, Ca. He is now an Honorary Visiting Research Fellow at the latter university
.
Dr. Gibbard's main field of research and publication is in the dynamic performance and control of large, interconnected power systems, and particularly in the design and coordination of practical robust, decentralized stabilizers. These stabilisers include both Power Systems Stabilisers fitted to generators and also stabilisers fitted to 'FACTS' Devices, typically large power electronic devices used for controlling system voltage. Production-grade software, originally developed for research in the field - and incorporates the results of that research - is used by a number of power utilities and consultants. He is a member of the

Power System Dynamic Performance Committee (PSDPC) of the IEEE's Power Engineering Society. He has participated in Task Forces of CIGRE (International Council of on Large Electric Systems, Paris), and was a main contributor to the Task Force publication "Impact of Interactions among Power System Controls". An IEEE Power Systems Transaction paper on the interaction between stabilisers received the prize paper award from the PSDPC in 2000. He is co-author with P. Stephanidis and A.P. Paplinski of the monograph, "Numerical Operations with Polynomial Matrices: Application to Multi-Variable Dynamic Compensator Design", Lecture Notes in Control and Information Sciences, Springer-Verlag, 1992.

Yeo Tat Soon

Academic/Professional Qualifications:
BEng I (1979), Singapore University, MEng (1981), National University of Singapore , PhD (1985), University of Canterbury, New Zealand

Career History (National University of Singapore) Senior Tutor (1979-1985); Lecturer (1985-1990); Senior Lecturer (1990-1996); Associate Professor (1996-2001); Professor (2002-present); National University of Singapore

Professional Registration:
CEng (1991), Engineering Council (UK)
PEng (1997), Singapore Professional Engineers Board

Professional Membership:
FIEE (1996), Institution of Electrical Engineers (UK), FIES (1999), Institute of Engineers, Singapore
FIEEE (2003), Institute of Electrical and Electronic Engineers (USA), Member (2002), Electromagnetic Academy (MIT, USA)

Awards/Honours (Post-PhD):
Joint Ministry of Defence National University of Singapore R&D Award (1997)
Singapore Standards Council Merit Award (2000)
IEEE Third Millennium Medal (2000)
Singapore Standards Council Distinguished Award (2002)

Institutional and Professional Services:
National University of Singapore: Director, Radar and Signal Processing Laboratory (1991-present); Director, Centre for Microwave and RF (1996-2001); Director, Antennas and Scattering Laboratories (1999-present);
Chairman, Engineering Faculty MINDEF-Related Research Coordination Committee (1999-present); Director, Temasek Defence Systems Institute (2001-present); Member, University Senate, National University of Singapore (1994-1997, 1998-2001);
Member, Research Strategy Planning Committee, Department of Electrical Engineering, National University of Singapore (1999);
Member, Faculty Board, Faculty of Engineering, National University of Singapore (1991-1996)
IEEE Singapore Section: Member, Executive Committee, EMC Chapter
(2000-2002); Member, Executive Committee, Joint MTT/AP Chapter(2000-2002);
Member, Executive Committee, Joint MTT/AP/EMC Chapter(2000); Chairman,
Executive Committee, Joint MTT/AP/EMC Chapter(1996-1999); Member,
Executive Committee, Joint MTT/AP/EMC Chapter(1991-1995)

IEEE Fellow: Yuchang Qiu

Professor Yuchang Qiu has recently been elected Fellow of the IEEE "*for contributions to electrical discharges in electro- negative gas mixtures.*"

Yuchang Qiu is Professor of Electrical Engineering at Xi'an Jiaotong University, China, where he has been teaching and doing research for more than 47 years. He is wellknown in the field of High-Voltage Engineering.

Prof. Qiu's most significant contributions are his systematic research into electrical discharges in electronegative gasmixtures, including the measurement and calculation of the electron ionization and attachment coefficients in various SF6 gas mixtures, investigation of streamer to leader transition in SF6 and its gas mixtures, and the study of engineering aspects of the application of gas-mixtures as insulation. He has also developed some gas-mixture insulated power apparatus in collaboration with some Chinese manufacturers.

Prof. Qiu started his teaching and research at Jiaotong University, Shanghai in July 1955, immediately after his graduation from that university. He made further studies at Tsinghua University from March 195 6 to July 1957. From January 1980 to January 1982, he was a visiting scholar at the University of Manitoba, Canada. He was appointed Professor and Director of the High Voltage Division at Xi'an Jiaotong University in 1986. In 1988 he completed an International Development Research Centre of Canada (IDRC) funded research project "Gas Insulation Systems—China" in cooperation with the University of Manitoba.

Prof. Qiu spent three months in 1992 at the University of Strathclyde, UK to carry out a research project on SF6 gas mixtures jointly supported by the Natural Science Foundation of China and the Royal Society of the UK. In 1996, he completed a second-phase IDRC project on the application of SF6 gas mixtures to power apparatus in co-operation with the University of Manitoba and three other Chinese institutions.

Prof. Qiu has been active in Dielectric and Electrical Insulation System (DEIS) activities. He was a member of DEIS Technical Committee S-32-11 (Gaseous Dielectrics) from May 1989 to June 1994, and was a corresponding AdCom member of DEIS from August 1998 to April 2000.

Region 10 Director Outlook
Dr. Jung Uck Seo

Industry Roundtables & Region 10 Meeting AGM

I had the pleasure of accompanying special IEEE guests - President Mike Adler on part of his tour through New Zealand, Australia, Singapore and Japan. President elect Art Winston also joined us on the Singapore and Japan legs of this visit.

The tour involved meetings with Industry leaders from India, Singapore, Korea and Japan. The 'roundtables' were used to promote and enhance the IEEE's industry relevance. In addition to these meetings region 10 arranged meetings with leaders from Indonesia, Philippines, Thailand, Taiwan, Singapore, Kansai and Fukuoka sections.

I can use an example of the meeting with Japanese leaders to demonstrate the range of topics discussed

- Overview of IEEE
- 'Stay Awake Issues - What issues keep you awake at night
- Perceived role and value of a professional association
- The performance of technical information including standards
- The need for continuing education for your engineering employees
- Importance of accreditation and certification
- Potential or partnering to promote engineering as a profession.

In addition I'd like to thank all IEEE volunteers throughout the region for their hard work and volunteerism.

This is most obvious with the efforts of my Region 10 committee, the Asia Pacific Office in Singapore and the Tencon 03-conference organizing committee. Their work all capped off a very successful year for IEEE Region 10.

The work will commence for the region 10 committee early in 2004 with an executive committee hosted in Auckland, New Zealand.

I wish you, your families and friends a wonderful festive season and I hope to catch up with many of you in 2004.

Dr. Jung Uck Seo, Region 10 Director 2003/2004

IEEE Industry Round-table with Japanese leaders

Chairs and Excom members Japan Council plus some Japanese sections

Various people from IEEE HQ and around the Asian region

Industry leaders from Korea, Singapore India

WA Section Team-building Workshop

One of the early aims of the newsletter was to share volunteer experiences and good practice across the region. This is an example where volunteers have given up more of their time in s friendly environment and is modelled on the training and sharing exercises from Sections Congress and Regional meetings.

The Western Australia (WA) Section held its third annual team-building workshop on May 18, 2003. Sixteen IEEE WA volunteers participated in this full day event. The program included presentations from volunteers with different portfolios and responsibilities, discussions of new ideas, leadership training and a number of team-building activities.

The interactive environment of the workshop had allowed all participants to gain a better knowledge of their team members, the WA Section and the IEEE organization in general. Furthermore, the new volunteers had found the workshop particularly beneficial as it gave them an opportunity to learn from the more experienced committee members.

Douglas Chai
Chair, IEEE Western Australia Section
Email: douglas.chai@ieee.org

OPTICAL ACCESS FIELD TRIAL IN SINGAPORE LED BY IEEE MEMBERS

A group of research scientists and engineers in Singapore has designed and implemented a state-of-the-art optical access test-bed consisting of a WDM metro access ring network, an Ethernet Passive Optical Network (EPON), a Gigabit Passive Optical Network (GPON) and a Radio-over-Fibre (ROF) network using a wide range of low cost optical components and modules they researched and developed over the last two years. In collaboration with Starhub Private Limited - a Singapore-based telecommunication service provider which operates its own nation-wide broadband network

Optical Network Focused Interest Group (ONFIG) began the field trial in September 2003. Recently the group showcased the low cost optical components and modules they developed, which include burst-mode and CW mode optical transceivers, MEMs devices, tunable optical components and arrayed waveguide gratings (AWGs), at Photonics World 2003 held in Suntec Convention Centre in Singapore from 29 to 31 October 03. They also demonstrated a few advanced applications on the testbed, which include a distributed storage area network and dynamic wavelength routing via the Generalized Multiprotocol Label Switching (GMPLS) platform. A symposium they held on 31 October attracted 180 participants from industry and the research and development community.

Most researchers of ONFIG are IEEE members. A number of key ONFIG members are also actively involved in the IEEE activities in Singapore. The leader of ONFIG, Dr. Tee Hiang Cheng, is himself a senior member of IEEE and the Chairman of the IEEE Communications Chapter of Singapore Section. Another ONFIG key figure who leads the group responsible for designing and setting up of the testbed, Dr Chao Lu, is an IEEE members and the Interim Chairman of IEEE LEOS Chapter of Singapore Section.

ONFIG members consist of research scientists and engineers from the following organizations:
- A*STAR Research Institutions:
    - Data Storage Institute (DSI)
    - Institute of Microelectronics (IME)
    - Institute of Materials Research & Engineering (IMRE)
    - Institute for Infocomm Research (I^2R)
    - Singapore Institute of Manufacturing Technology (SIMTech)
- Institutes of Higher Learning:
    - Department of Electrical and Computer Engineering, National University of Singapore
    - Network technology Research Centre, Nanyang Technological University
    - Photonics Research Centre, School of Electrical and Electronic Engineering, Nanyang Technological University

ONFIG was initiated in April 2001 to work on strategic areas related to optical access technologies. It is a platform to create more synergy and encourage collaboration among research institutes and universities. It facilitates the development of technology required for the wide deployment of optical access network technology to individuals, homes and businesses. It also aims to lay the foundation for widespread adoption of intelligent systems with low cost high-volume hardware amongst industrial players.

For more information on ONFIG, please contact Dr. Jasbir Singh at jasbir_singh@a-star.edu.sg or Dr. Tee Hiang Cheng at chength@i2r.a-star.edu.sg.

THE IEEE VIRTUAL MUSEUM CONTINUES TO GAIN VISITORS AND PRAISE.
Designed to teach the general public—and particularly the pre-university crowd—about IEEE technologies and their social and historical importance, the IEEE Virtual Museum (VM), which opened in 2002, continues to draw thousands of users monthly and to attract critical praise. The newest exhibit, Women & Technology, opened in June 2003 to rave reviews. The two most recent awards for the VM were to be named one of the "Best Sites for Kids" by the prestigious American Library Association and to make *PC Magazine'*s "Top 101" list. *PC Magazine* named the IEEE VM one of the "Top 101 Most Incredibly Useful Sites" of 2003. The museum was among the eight sites chosen in the "Computing – Everyone " category. The review called it a "fascinating, engaging, image- and infographic-laden site" where "you'll discover the stories behind your favorite electrical engineering marvels." For more information on the list, go to http://www.pcmag.com/category2/0,4148,7488,00.asp. You can visit the IEEE Virtual Museum yourself at http://www.ieee.org/museum. Be sure to look for the next exhibit on technology and World War II, opening in December 2003.

IEEE MEMBER NEWSPAPER IS PUBLISHED ONLINE

'The Institute', the IEEE member newspaper, will publish 16 issues this year:
Quarterly print issues will arrive in the mail beginning with the March issue of IEEE Spectrum. New online editions of The Institute will be published by the 7th of every month, and IEEE members will receive an email alert when each issue has been posted.
Members who have not already received the alert may sign up for the service by providing an email address at the "Update Your Address or Contact Info" link at:

http://www.ieee.org/membership

Read the online issue of 'The Institute' now at http://www.ieee.org/theinstitute>

Sign up for your free IEEE Email Alias - complete with virus scanning software - www.ieee.org/alias

THE IEEE HISTORY CENTER ANNOUNCES ITS 2004 CONFERENCE AND STUDENT PAPER COMPETITION.

The IEEE History Center's unique work in bringing together engineers, social scientists, humanists, hobbyists and others to discuss mutually interesting aspects of engineering history is not limited to the Rutgers campus. Every two or three years we hold an international workshop in the same vein. The 2004 IEEE Conference on the History of Electronics (CHE2004) will be the fifth in this series of workshops. The occasion is the centennial of the Fleming diode, and the profound role electronics have had in shaping the modern world, from Fleming's invention to the present, makes this an important topic of historical study. This workshop will be held at the historic Bletchley Park in the United Kingdom. This is an ideal site for such a meeting with conference facilities in the Victorian mansion and historical exhibits there and elsewhere in the park-like grounds. It is also an appropriate site, as it was here during World War II that the transition from electromechanical to electronic computing was made in the effort to decrypt intercepted messages. This conference will feature a worldwide Student History Paper Contest, with an opportunity for IEEE Student members and their Student Branches to benefit from doing historical research. Full information on the conference and contest are available at

http://www.ieee.org/organizations/history_center/Che2004/index.html.

National Society Agreements

Ted W. Hissey, IEEE Director Emeritus

The main reason for working cooperatively with National Societies of a country is to assist the engineers and scientists of that country to achieve an optimum working, professional, and personal image in the community.

The "Value-Added" to the IEEE is increased publicity, visibility, image, and interest from the engineering and scientific community of that country.

In addition, IEEE achieves additional access to industry and to the public; additional volunteer source for activities; and, depending on the IEEE Section assertiveness, increased energy and membership for the Section and global IEEE.

Background

The real success of any NSA depends on the Section, or geographic Council involvement and energy. It is imperative for the Section to be energetic and assertive in seeking cooperative activities with the National Society (NS), if the arrangement is to have success.

The cooperation of the IEEE Section with the country National Society can take one of two approaches
- Formal – with a signed agreement
- Informal – based on "word" agreement – or a "handshake"

This cooperation can be effective under ether approach. It basically depends on the culture, and existing working relationship between the IEEE Section and the local
organization as to whether the National Society desires a formal agreement to identify the relationship.

Some National Societies feel more comfortable with a signed agreement – often commenting that such an agreement with the IEEE and / or with the IEEE Technical Societies gives them a prestigious position to present to their members, and the community.

Other examples have shown that these joint activities stimulate the members of the IEEE Section - creating greater energy, enthusiasm, and volunteerism.

It must be recognized that the signing of a joint cooperative National Society Agreement (NSA) is only a small step in the process of cooperation. The important steps follow, i.e. those of creating joint cooperative projects and programs such as;
- Joint Awards
- Technical, and / or social meetings
- Seminars, Tutorials, and Short Courses
- Joint meetings on visits by IEEE Distinguished Lecturers
- Conferences and exhibitions

Even though it has been emphasized to the Sections, and Section Chair, that the responsibility for generating the cooperation is with the local IEEE Sections and the National Society, this responsibility is not well acknowledged and accepted.

Therefore, starting in 2003, and for the future, the Section (or Council) Chair will also sign all NSAs, new and renewed, in addition to the IEEE President.

Cooperation Rather than Competition

The IEEE is committed to working cooperatively – not competitively – with the many National Societies with whom we have agreements, and/or close ties. This commitment brings to the IEEE, and its' organizational units, another obligation – to be flexible, understanding, and responsive to the differences in culture, thought processes, language, laws, etc.

In all cases the NSAs signed by the IEEE President) have been worded so that they do not inhibit the initiatives or operations of the IEEE Sections, Technical Societies and Councils.

All NSAs encourage "Sister Society" agreements (SSAs) between the IEEE Operating Units and the National Society, thus allowing innovations in the area of society dues, publications, products and services and joint activities.

Achieving better cooperation with, and better recognition from, Industry, is an often-stated issue with all of the IEEE organizational units. These agreements have enhanced IEEE's interface and visibility with industry in the involved countries, as well as provided an excellent opportunity for additional IEEE/Industry cooperative activities.

Where Do We Stand Now?

IEEE has some 65 "umbrella" type active NSAs with various National Societies and Industry associations around the world. These agreements cover 39 countries, and are under the control of 33 IEEE Sections, 4 Country IEEE Councils, and 3 IEEE Regions.

Normally, the request for an NSA agreement comes from the IEEE Section chair or one of their appointees. They have normally reviewed the material on the IEEE WEB site, and proceed from there.

If they have questions, they then can contact national-societies@ieee.org for additional information.

In addition to the availability of the listing of NSAs by IEEE Geographic Region on the IEEE WEB site under www.ieee.org/nsa, an up-dated version of the NSA listing has been distributed regularly to many IEEE stakeholders.

The NSA page contains;

- Background of NSAs
- NSA listing by Geographical IEEE Region
- SSA listing showing various IEEE Society and Council agreements
- Sample NSA Memorandum of Understanding (MOU)
- Ideas for cooperation

Evaluation / Effectiveness

The effectiveness of these agreements has been under study for several years to try to establish the true "value added" to IEEE of these agreements.

It is difficult to establish firm statistical data to prove, or disprove the effectiveness to IEEE of these NSA cooperative agreements. Many of the gains are intangible.

One example of such an intangible value is gained from the creation of Joint National Society / IEEE Awards. This has been proven through the successful joint award ventures of the Peru and Singapore IEEE Sections.

In Singapore, the recipient of the 2003 first IES / IEEE Joint Medal of Excellence Award was the distinguished engineer/scientist/manager Prof. Su Guaning. In addition to his important government contributions, he was recently made President of the prestigious Nanyang Technological University. This event in addition to the many cooperative IES / IEEE activities has raised the image of the IEEE, and of engineers and scientists in Singapore. Since the award event was partially sponsored and fully attended by local industry, it also brought the IEEE name to industry once again.

Other Sections have cooperated with their local National Society to sponsor seminars, tutorials, exhibitions, and distinguished lecturers along with other joint activities.

Feedback and thoughts on additional ideas for cooperation is encouraged, to assist the Section chairs in their efforts to improve National Society / IEEE Cooperative activities.

Asia and Pacific (IEEE Region 10)

* Indicates membership discounts are available if individuals who are members of both IEEE and the national society.

Australia
- IEAust, Institution of Engineers, Australia*

China
- CUEI, China Union of Electrotechnology and Information Science*

India
- IEI, Institution of Engineers, India
- IETE, Institute of Electronics and Telecommunications Engineers*

Indonesia
- AEEE, Association of Electrical and Electronic Engineering of the Indonesian Institute of Engineers
- IABA, Indonesian Association of British Alumni

Japan
- IEEJ, Institute of Electrical Engineers of Japan
- IEICE, Institute of Electronics, Information and Communication Engineers
- IEIJ, Illuminating Engineering Institute of Japan*
- IPSJ, Information Processing Society of Japan*
- ITE, Institute of Image Information and Television Engineers of Japan
- JSAP, Japan Society of Applied Physics
- JSSPRM, Japan Society for Science Policy and Research Management
- SICE, Society of Instrument and Control Engineers*

Korea
- IEEK, Institute of Electronics Engineers Korea*
- KISS, Korea Information Society *

Malaysia
- IEM, Institution of Engineers, Malaysia

New Zealand
- IPENZ, Institution of Professional Engineers New Zealand*

Pakistan
- IEP, Institution of Engineers, Pakistan*

Philippines
- IECEP, Institute of Electronics and Communications Engineers of the Philippines*
- IIEE, Institute of Integrated Electrical Engineers of the Philippines, Inc.*
- PETEF, Philippines Electronics and Telecommunications Federation*

Singapore
- IES, Institution of Engineers, Singapore*

Vietnam
- REV, Radio-Electronics Association Vietnam*

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**Note: R10 Student rep and IEEE APO Manager included but are not Excom members

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IEEE REGION 10 - NEWSLETTER EDITORIAL DEADLINES

Raise awareness of your own significant achievements, events and interesting IEEE activities or people in your section. Newsletter ready articles greatly appreciated. I am also looking for extra IEEE volunteer support to assist with collection of articles, editorial work and collation of the electronic newsletter. Make a note in your calendars and please submit electronic articles for inclusion by the listed dates to

harry.mcdonald@ieee.org.

Editorial Deadline	Newsletter Target Issue Date
6th Feb 2004	**27th Feb 2004**
7th May 2004	28th May 2004
6th Aug 2004	27th Aug 2004
4th Nov 2004	22nd Nov 2004

IEEE CONFERENCES IN REGION 10
DURING THE PERIOD 1st DECEMBER 2003 - 31st MARCH 2004

December 2003

2003 IEEE International Conference on Cluster Computing
Hong Kong, China
01 Dec - 04 Dec 2003
http://www.csis.hku.hk/cluster2003/

2003 IEEE International Symposium on Consumer Electronics - (ISCE 2003)
Sydney, Australia
03 Dec - 05 Dec 2003
http://www.ieee.org.sg/Chapters/CE/Isce03/

2003 International Symposium on Cyber Worlds: Theory and Practice (CW)
Singapore
03 Dec - 05 Dec 2003
http://www.ntu.edu/sg/sce/cw2003

2003 International Symposium on Intelligent Signal Processing and Communications Systems (ISPACS 2003)
Awaji Island, Japan
07 Dec - 10 Dec 2003
http://splab.cs.kitami-it.ac.jp/ispacs2003/

2003 3rd International Symposium on Environmentally Conscious Design and Inverse Manufacturing - EcoDesign 2003
Tokyo, Japan
08 Dec - 11 Dec 2003
http://ecodenet.com/ed2003/index.htm

2003 IEEE Congress on Evolutionary Computation
Canberra, Australia
08 Dec - 12 Dec 2003
http://www.cs.adfa.edu.au/cec_2003/

2003 IEEE International Multitopic Conference (INMIC)
Islamabad, Pakistan
08 Dec - 09 Dec 2003
http://www.giki.edu.pk/inmic/inmic.htm

2003 5th Electronic Packaging Technology Conference -(EPTC 2003)
Singapore
10 Dec - 12 Dec 2003
http://www.eptc-ieee.net

2003 International Workshop on Multimedia Software Engineering (MSE 2003)
Taichung, Taiwan
10 Dec - 12 Dec 2003
http://mse2003.ece.uci.edu

2003 3rd International Conference on Hybrid Intelligent Systems
Victoria, Australia
14 Dec - 17 Dec 2003
http://www.his03.hybridsystem.com/

2003 International Conference on Informatics Cybernetics and Systems (ICICS)
Kaohsiung County, Taiwan
14 Dec - 16 Dec 2003
http://www.isu.edu.tw/ICICS2003/

2003 Conf. on Lasers & Electro Optics & The Pacific Rim Conf. on Lasers and Electro - Optics CLEO/PACIFIC RIM 2003
Taipei, Taiwan
RESCHEDULED from July 2 15 Dec - 19 Dec 2003
http://cc.ee.ntu.edu.tw/~cpr2003

2003 Joint Conference of the 4th International Conference on Communications & Signal Processing & 4th Pacific-Rim Conference on Multimedia
Singapore
15 Dec - 18 Dec 2003
http://www.ntu.edu.sg/icics%2Dpcm03/

2003 IEEE National Power Engineering Conference (PECon)
15 Dec - 16 Dec 2003
Selangor, Malaysia
http://www.ewh.ieee.org/soc/pes/malaysia/

2003 8th International Conference on Electromagnetic Interference and Compatibility (INCEMIC 2003)
Madras, India
16 Dec - 19 Dec 2003
http://www.semcei.org/incemic2003.html

December 2003 (contd)
2003 IEEE Conference on Electron Devices and
Solid State Circuits
Hong Kong, China
RESCHEDULED from July 13, 2003 to **16 Dec - 18**
Dec 2003
http://www.ee.ust.hk/ieee_eds/edssc.htm

2003 International Conference on High Performance
Computing - India (HIPC)
Bangalore, India
17 Dec - 20 Dec 2003
http://www.hipc.org/index.html

January 2004
2004 International Conference on Computers and
Devices for Communication (CODEC)
Calcutta, India
01 Jan - 03 Jan 2004
http://www.irpel.org/codec/codec04.html

2004 17th International Conference on VLSI Design:
concurrently with the 2nd International Conference on
Embedded Systems Design
Mumbai, India
05 Jan - 09 Jan 2004
http://vlsi.nec.nj.com/~chak/vlsi2004

2004 International Symposium on Nanoelectronic
Circuits & Giga-Scale Systems (ISNCG)
Miao-Li, Taiwan
RESCHEDULED from Oct. 27, 2003 10 Jan - 12
Jan 2004
http://www.isncgs.nlhu.edu.tw/

2004 7th International Topical Workshop on
Contemporary Photonic Technologies (CPT)
Tokyo, Japan
14 Jan - 16 Jan 2004
http://www.cpt-symposium.com

2004 Asia and South Pacific Design Automation
Conference
ASP-DAC 2004
Yokohama, Kanagawa, Japan
27 Jan - 30 Jan 2004
http://www.aspdac.com/

2004 IEEE International Workshop on Electronic
Design, Test and Application (DELTA)
Perth, Western Australia
28 Jan - 30 Jan 2004
http://delta2004.ecu.edu.au/

February 2004
2004 6th International Conference
AdvancedCommunication Technology (ICACT)
Pyeong Chang-Goon, Korea
09 Feb - 11 Feb 2004
http://icact.nca.or.kr

March 2004
INFOCOM 2004
Hong Kong, China
03 Mar - 13 Mar 2004
http://www.comsoc.org/confs/infocom/index.html

2004 Pacific Rim International Symposium on
Dependable Computing (PRDC)
Papeete, Tahiti, French Polynesia
03 Mar - 05 Mar 2004
http://www.laas.fr/PRDC10/

2004 13th Annual Wireless and Optical
Communications Conference
Taipei, Taiwan
08 Mar - 10 Mar 2004
http://www.wocc.org

2004 International Workshop on Junction
Technology (IWJT)
Shanghai, China
15 Mar - 16 Mar 2004
http://www.cie-china.org/iwjt-2004/

2004 Second Joint Symposium on Opto and
Microelectronic Devices and Circuits (SODC 2004)
Wuhan, China
21 Mar - 30 Mar 2004
http://www.onel.edu.cn

2004 IEEE International Conference on Networking,
Sensing and Control (ICNSC)
Taipei, Taiwan
21 Mar - 23 Mar 2004
http://www.ieeesmc.org/webpages/conferences/ICNS
C2004CFP.pdf

March 2004 (contd)

2004 IEEE International Conference on
Microelectronic Test Structures (ICMTS)
Awaji, Japan
22 Mar - 25 Mar 2004
http://www.see.ed.ac.uk/ICMTS/

2004 IEEE International Workshop on Wireless and
Mobile Technologies in Education (WMTE)
Taoyuan, Taiwan
RESCHEDULED from December 2003 to 23 Mar -
25 Mar 2004
http://lttf.ieee.org/wmte2003/

2004 24th IEEE International Conference on
Distributed Computing Systems - ICDCS 2004
Tokyo, Japan
23 Mar - 26 Mar 2004
http://www.cis.ohio-state.edu/icdcs04/

2004 International Conference on Advanced
Information Networking and Applications
(AINA)
Fukuoka, Japan
29 Mar - 31 Mar 2004
http://www.takilab.k.dendai.ac.jp/conf/aina/2004/

2004 IEEE International Conference on e-
Technology, e-Commerce and e-Service
(EEE)
Taipei, Taiwan
29 Mar - 31 Mar 2004
http://bikmrdc.lm.fju.edu.tw/eee04/

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