

# AP Newsletter

The official newsletter of ComSoc Asia Pacific Board  
<http://www.comsoc.org/~apb/>

No. 17, June 2000

Asia-Pacific Region Officers  
(2000 – 2001)

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Naohisa Ohta

Vice Directors:

Sang Hoon Lee

Kwang Cheng Chen

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Tetsuya Onoda

Hongbeom Jeon

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ISC Chair:

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MDC Chair:

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CCC Chair:

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AP Advisors:

Tomonori Aoyama

Lin-shan Lee

Noriyoshi Kuroyanagi

Byeong Gi Lee

Desmond Taylor

T. T. Tjhung

Editorial Message (Tomoaki Ohtsuki)

## Hot Topics

1. APB Director's Message by Dr. N. Ohta
2. DL Tour Report by Ms. Fanny Su

## APB Reports

- 3a. Report from TAC by Dr. N. Yamanaka
- 3b. Report from CCC by Dr. Borhanuddin Mohd. Ali
4. Message from past chair of ISC by Prof. I. Sasase
5. Office report by Ms. Fanny Su
6. Minutes of APB meeting at GLOBECOM'99 by Dr. T. Onoda

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## Reports from Chapters in AP Region

8. India Council Joint Chapter (AES/COM/LEO) report by Dr. Ram Gopal Gupta

## Editorial Message

Welcome to the 17th issue of the COMSOC AP Newsletter. This is the first issue after Dr. Ohta became the Director of AP Region, ComSoc, 2000-2001. Please check our new AP officers. We also want you to check our new home page at IEEE ComSoc Website: <http://www.comsoc.org/~apb>.

You can get important information, such as student travel grant, conference reports, AP best paper award, and so on.

We are always talking about what our AP regional members want to read. Newsletter is for our AP regional members. Its articles are written by people who are interested in the AP region. We need your contributions of articles on news and activities in your respective countries, in order to be truly an AP Newsletter. Please send us your comments and articles.

We really want to hear from you.

Tomoaki Ohtsuki, Editor

## 1. APB Director's Message

Dear all,

I was appointed as the Director of AP Region, ComSoc, 2000-2001. I am very much excited and honored to serve as the Director since AP Region is one the most important, dynamic and fast-evolving regions in the globe. I would like to appreciate all my colleagues, AP Regional ComSoc members, for supporting me in this regard.

I am very proud of the past and current APB activities. As the Director for 2000-2001, I would first like to express my deep gratitude to the past APC Chairs and the first AP Director for their dedicated time and efforts that made the current shape of the AP Region and its status within

the ComSoc organization. Especially, my predecessor, Prof. Byeong Gi Lee, has contributed significantly for establishing the APB organization and defining operations of the organization.

APB is going to continue all the activities and services that have been conducted in the past, and will expand them in compliance with the ComSoc requirements by emphasizing technical activities and coordination with chapters.

I appointed new officers to carry out our goal. The officers are Vice Directors, Secretaries and Chairs/Vice Chairs/Secretaries for the following committees: Technical Affairs Committee (TAC), Meetings and Conferences Committee (MCC), Information Services Committee (ISC), Membership Development Committee (MDC), Chapters Coordination Committee (CCC). We have two vice Directors to support Director: Dr. Sang Hoon Lee is for Membership Development Activities, and Dr. Kwang Cheng Chen for Technical Activities.

We have very important new officers called Special Liaisons for COMSOC TC Activities: Dr. Iwao Sasase and Dr. Geng-Sheng (G.S.) Kuo, to support bridging AP technical activities to ComSoc TC activities. All the names and affiliations of "Officers and Advisors" are posted in the APR home page.

I would appreciate their volunteer work in advance.

Also, I would like to refer to the AP Regional Office in Singapore. The office, Ms. Fanny SU and Ms. Jenny LONG, have been helping us to provide good services to AP regional COMSOC members and will continue to support APB.

Again, all AP Regional members' support is indispensable to activate APB functions and to provide good services to us. Thank you in advance for your kind understanding and support.

Sincerely,  
Naohisa Ohta  
AP Director, COMSOC  
naohisa@sm.sony.co.jp

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APB Officers Appointment (2000-2001) can be found at the APR home page:  
<http://www.comsoc.org/~apb/>

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## **2. Distinguished Lecture Tour**

The Communications Society office for the Asia Pacific in Singapore started co-ordinating Distinguished Lecture Tours (DLT) in 1997. Our first successful DLT took place in Australia with Prof. David Goodman as the Distinguished Lecturer (DL). The DLT went very well and has encouraged us to put together more DLTs for the Asia Pacific Region.

In Jan'99, Distinguished Lecturers Dr. Manu Malek did a tour of Singapore, Melbourne, and New Zealand followed by Mr. Nelson Sollenberger who toured Seoul, Cheju, Taipei, Kuala Lumpur, Singapore and Hong Kong in Sep'99.

We are pleased to learn recently that our Director for Membership Development Program, Dr.

Byeong Gi Lee has received ComSoc approval to fund upto 5 DLTs a year in each region.

We are currently co-ordinating a DLT in India which is scheduled between 8-17 Aug'00. We are still in the process of putting it together. The chapters involved are New Delhi, Chennai and Bangalore and we are honored to have Dr. K K Ramakrishnan as the Distinguished Lecturer.

IP Telephony and Congestion Control is Dr. Ramakrishnan's area of expertise. Below is the abstract of the 3 hour tutorial on IP Telephony and Congestion Control Tutorial that will be presented by Dr. K K Ramakrishnan.

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Protocol and QoS Support for Internet Telephony

Tutorial by

K. K. Ramakrishnan

AT&T Labs. Research

There is a significant industry effort towards supporting telephony over the rapidly expanding packet network infrastructure. Several protocol developments to carry voice and real-time media are being worked on in the industry, and will be covered in this tutorial:

Transport:

- RTP and RTCP for encapsulating and transporting real time data;
- Voice over ATM, such as over AAL2 and AAL5;

Signaling:

- H.323 as a protocol suite that includes signaling and control;
- The Session Initiation Protocol (SIP);

I will also cover in some detail protocols developed in the cable environment:

- The NCS call-signaling protocol.
- The Dynamic Quality of Service framework and protocol.
- The DCS call-signaling (enhancements to SIP).

A discussion of supporting voice over packet networks needs to consider QoS for transport of the packetized voice stream. We will first describe the QoS constraints for providing toll-quality voice, in terms of delay and loss. The current effort in the Internet community to provide service differentiation is focused on providing gradations of service from an Internet Service Provider perspective. We will cover the various approaches in the Internet world for supporting QoS: Integrated Services and Differentiated Services and their use for transporting voice. If time permits, I will discuss the various issues related to QoS in ATM: the traffic classes and QoS associated with them: CBR, VBR and potentially ABR for supporting real-time streams.

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Congestion Management in High Speed Networks

by

K. K. Ramakrishnan

The problem of congestion management has been a particularly active area of research for the last decade. The real problems of managing congestion in the Internet, and other connectionless

networks resulted in the development of several congestion control and avoidance techniques, the most widely implemented of which is Van Jacobson's Slow Start. Networks are getting faster, are more richly interconnected and are growing in scale everyday. The larger bandwidth-delay products for these high-speed networks poses a continuing challenge for flow and congestion management algorithms. While congestion control still attracts widespread research interest, progress has been made in understanding the problem. We understand more fully the behavior and effectiveness of window-based schemes, and a whole new field of research has opened up in the design and analysis of rate based flow control algorithms.

A lot of work on rate-based congestion control has been in the context of ATM flow and congestion control. Recently, there have been proposals in the IETF to use Explicit Congestion Notification (ECN) for TCP/IP, and research ideas to use ECN in combination with pricing strategies. We will review the work that has been done in the past decade in flow and congestion control and avoidance and examine the potential of recent work in congestion management.

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To make a DLT possible, we need at least 3 chapters within close proximity to be interested so as to maximize benefits from the tour. Timing of the tour must be suitable for both the chapters as well as the lecturers. IEEE Comsoc will fund the airfare and the chapters will bear all the local expenses i.e. accommodation, local transportation and meals. The DL will normally require 2 days stay in one city. We need a timeframe of at least 4 months for planning and co-ordinating a DLT.

The Communications Society has a list of Distinguished Lecturers that can be found on this website: <http://www.comsoc.org/socstr/dlprog/index/html>

Any queries about the DLT for the Asia Pacific Region, please feel free to contact our office or the Chapter Coordination Committee Chair for the APB, Dr. Borhanuddin bin MOHD ALI. His email contact: [borhan@eng.upm.edu.my](mailto:borhan@eng.upm.edu.my)

Fanny Su (Manager)  
IEEE Asia Pacific Operations Centre/  
Communications Society Office  
Email: [ieeeeapo@pacific.net.sg](mailto:ieeeeapo@pacific.net.sg)

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### **3a. TAC Report**

TAC (Technical Affair Committee) intends to implement the following action plan this year. TAC would like to introduce APB sponsored best-conference award to OECC, APCC, APNOMS and ISPACS. Details are shown in Appendix-A (APB Best Paper Award Guideline). In addition, TAC will cooperate with the APB-secretary to organize the TAC-sponsored special Business Application Session (BAS) in ICC 2000.

Topics and overview of the BAS session are as follows.

ICC 2000 @ New Orleans

A proposal for SAS (Services, Application & Systems) session

Title: 3<sup>rd</sup> mobile communication in Asia Pacific.

Subtitle:--- System, service and multimedia-terminal devices ---

Sponsor: IEEE ComSoc APB, IEICE Communication Society

Organizer: Dr. Takeshi Hattori (Sophia University, Japan), Dr. Naoaki Yamanaka(APB TAC Chair)  
Chair Prof. Dr. Takeshi Hattori (Sophia University, Japan)

Panelists: Takeshi Hattori (Sophia Univ.) TBD (Korea), Toshiro Suzuki (Hitachi Co), Go Nano (NTT DoCoMo)

Abstract:

As our life style changes, the penetration of cellular phones keeps increasing. In Japan, the total number of cellular phones including PHS (Personal Handy-phone System), exceeded 53 million in November '99. It is estimated that this number will reach 60 million in a few months. This figure equals the number of POTS (Plain Ordinary Telephone Service) subscribers. In Korea, there are 32 million cellular phone users and the demand for mobile communication is still increasing. The total number of users in Asia, currently 130 million, is rapidly increasing at the rate of 20% a year. In these circumstances, the coverage of the high-speed network infrastructure needed for cellular phone service continues to expand. State-of-the-art technologies for terminal devices have also created several new non-verbal mobile communication services. Especially exciting is the Japanese packet switching network for Internet access established for mobile data communication services, such as "i-mode" of NTT DoCoMo, and WAP-base services of NCC.

The "3rd generation" of mobile communication such as multimedia services is very promising. 3rd generation systems aim to increase the packet transmission rate up to 144kbps for vehicular environment, 384kbps for pedestrian environment, and 2Mbps for indoor environment. For realizing such high speeds, DS-CDMA/FDD, DS-CDMA/TDD and MC-CDMA have been standardized as the wireless access schemes of the 3rd generation system. For the backbone, GSM-MAP Evolution and ANSI-41 Evolution are recognized as worldwide standards. Currently, the 3GPP/3GPP2 working group is finalizing details of the specification of a service now being field-tested. This service will be available in early 2000.

This session invites key persons, from representative development organizations in the Asia Pacific area associated with 3rd generation systems, to become panelists. Discussions will include system configurations, new services, and the development of multimedia terminal devices for 3<sup>rd</sup> generation.

Appendix-A: APB Best Paper Award Guidelines (Revised Version)

### 1. Significance

This guideline explains about regulations of APB Best Paper Award and conference's award sponsored by APB.

The APB Best Paper Award honors the authors of especially meritorious papers presented in AP Regional conferences supported by Comsoc APB, and is intended to stimulate Asian & Pacific technical research. The prize shall consist of \$500 per paper and a certificate. APB can sponsor the award of conference specified by APB TAC. APB will support the award by giving a prize for it. The award is selected and designated by APB TAC members.

### 2. Conferences

To receive the APB Best Paper Award, the paper must be presented in the following IEEE conference sponsored by APB:

- APB Best Paper Award: APCC
- Award sponsored by APB: conference designated by APB TAC

### 3. Selection

Judging shall be based on general quality, originality, subject matter, and timeliness.

#### 3.1 APB Best Paper Award

Based on the judging policy, the APB Best Paper Award selection committee will select the best among the eligible papers according to the grading assigned by each conference's TPC and the recommendation of each session chair.

##### 3.1.1 Selection Committee

Each conference (APCC at the beginning) shall establish a Selection Committee. The Selection Committee consists of APB TAC members (chair, vice chairs and secretary) and members recommended by each conference TPC. The number of members is nine (odd number).

##### 3.1.2 Grading & Decision

First, high scoring papers (ex. 10 papers) are preliminarily selected according to the grading given by each TPC. Next, after adding session chair's points, the highest scoring paper is selected. If some papers tie, the final selection is left to the chair's discretion.

#### 3.2 Award sponsored by APB

APB will sponsor the award of conference specified by APB TAC. APB will support the award by giving a prize for it. APB TAC will designate the award. Based on the award policy, the conference's TPC members will select the best among the eligible papers presented in the conference.

##### 3.2.1 Selection Committee

Each conference shall establish a Selection Committee. The Selection Committee consists of the conference TPC members.

##### 3.2.2 Decision

The paper selection is decided by the Selection Committee of the conference based on its award policy.

### 4. Award Ceremony

The award ceremony is to be held during a session of APCC.

### 5. Prize

The prize shall consist of \$500 per paper and a certificate.

Dr. N. Yamanaka

yamanaka.naoaki@lab.ntt.co.jp

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### 3b. CCC Report

**Communications Chapter Coordination Committee**

**Asia Pacific Board**

**Preamble**

1. According to the APB charter the objectives of the Chapter Coordination Committee is as follows:
  - a. “The CCC shall manage the coordination among ComSoc Chapters in the AP region and other Chapter related matters:
    - i. to hold a yearly AP Regional Chapter meeting
    - ii. to collaborate with the AP Office in running the Distinguished Lecturer Tour (DLT) Program
    - iii. to collaborate with the AP Office in coordinating ComSoc Executives' visit to Chapters”
  - b. The CCC Chairperson may delegate the AP Director to the Chapters, and shall represent the APB in contacting Chapter related ComSoc organizations and meetings.
2. Further, we have been informed that we have been allocated 5 Distinguished Lecture Tours this year, courtesy of the efforts made by the previous APB Director.

### **Proposed Activities:**

From the foregoing the following programs are proposed:

1. To coordinate the Distinguished Lecture Tour (DLT) among the Chapters in the Region.
2. To form a forum whereby the Chapter Chairs will share their experiences and ideas for the benefit of the members in the Region.

### **Methodology:**

1. In order to achieve the first objective above, the following actions are proposed.
  - a. The Chapter Chairs, with the help of the AP Office, Singapore, shall select the relevant speakers from among the list of Distinguished Lecturers (DL). This list shall be drawn from the Comsoc approved list of DLs as published in the Comsoc handbook.
  - b. Coordination will be made among the Chapters such that each DL will make a tour of one specific region in one trip, e.g. India, China, Australasia, Asean.
  - c. The AP Office in Singapore will subsequently make further arrangements such as contacting the speakers, and arranging a suitable itinerary.
  - d. The host Chapter shall submit a report no later than 1 month after the visit for our compilation and reporting.
2. In order to achieve objective 2 above, the following actions are proposed.
  - a. The Chapter Chairs shall meet annually at the APCC conference venues to exchange opinion, share experience, and chalk out future activities of common interests.

- b. An e-mail discussion group shall be established in order to facilitate further communication among the Chapter Chairs on a continuous basis.
- c. A chairperson for the discussion shall be duly elected to conduct such discussions.
- d. A code of good practice shall be drawn to encourage good professional conduct in the discussion.

**Budget:** Chapter Chair Meeting:

Number of Chapters	20
Average cost per trip	\$600
Total Cost	<u>\$12,000</u>

**Miscellaneous:**

The Committee shall reserve the discretionary power to amend the above proposal, should the need arise, in order to accommodate any unforeseen circumstances.

BMA/260500  
 Borhanuddin Mohd Ali  
[borhan@ieee.org](mailto:borhan@ieee.org)

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**4. Message from past (Information Services Committee) chair**

It was my pleasure to serve as the ISC chair for two years. My work was strongly supported by Dr. Hideo Kuwahara, Homepage Vice Chair, Dr. Teik-Kheong Tan, Newsletter Vice Chair and as well as Editor, Mr. Chee Cheon Chui, AP Newsletter Assistant Editor, Prof. Saewoong Bahk, GCN Liaison, and Dr. Tomoaki Ohtsuki, Secretary. I would like to thank them as well as staffs in ComSoc Singapore Office, and APB staff members. With the big support from all of them, the ISC could manage to publish AP newsletters twice a year and maintain the updated and highly informative APR Homepage. Since Dr. Kuwahara and Dr. Ohtsuki continue to serve as new ICS Chair and Newsletter Vice Chair, I am very confident that the quality of service of ISC would be much more improved. I would like to ask you to help the ISC officers.

Iwao Sasase  
 The past ISC Chair  
 Professor, Keio University, Japan

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**5. Report from AP Office**

As of 1 Jan 2000, our functions as the Asia Pacific Operations Centre is reporting to RAB Managing Director, Ms. Cecelia Jankowski. We continue to provide services to our members and customers, but will overtime add on more responsibilities to include region volunteer support. There are no changes to our role as the Communications Society office for the Asia Pacific. We are pleased to be able to continue supporting the Communications Society and its regional Asia Pacific Board into year 2000.

In Nov last year, we had a visit from the VP for Radio-Electronics of Vietnam(REV), Prof. Nguyen Van Ngo. REV then had just signed a sister society agreement with the Communications Society. Prof. Nguyen met up with Dr. Low Teck Seng(Region 10 Director-Elect) and we had a discussion on future collaborations between REV, IEEE and ComSoc.

Our AP committees under our previous AP Director, Prof. Byeong Gi Lee and current AP Director Dr. Naohisa Ohta have been forming up very nicely over the last 2 years. We had a very fruitful meeting on 23 Dec 99 in Singapore when Prof. Byeong Gi Lee and Dr. Ohta visited our office. Our discussion centered around making the Asia Pacific a more vibrant region for our Communications Society members through more coordinated activities and support for the various committees. Under their leadership, we will continue to improve on the efficiency of our support to the APB and its committees.

As you will note, our DLT is again gaining momentum this year. Prof. Byeong Gi Lee, as Director Membership Programs, has been able to get ComSoc approval for upto 5 DLTs per region a year. We are currently working with our Communications Chapters Coordination Committee Chair, Dr. Borhanuddin B. Mohd. Ali(from Malaysia) to encourage more Section/Chapters to make use of these ComSoc DLT opportunities for their local membership activities.

Our Communications Society President, Dr. Roberto Boisson de Marca and VP Society Relations, Alex Gelman , and Presidents from REV(Vietnam, IETE(India) and CIEE(Taiwan) will be flying into Singapore for a Sister Society meeting. The meeting is currently scheduled to take place 24/25 July. Dr. Alex Gelman has taken this opportunity to offer a technical talk to our Communications members in Singapore. The topic will be on Residential Networking and Networked Appliances and organized by the Singapore ComSoc Chapter. Our office will assist in planning and coordinating the visit. Prior to that, they will also have a sister society meeting in Tokyo on 21/22 July with IEICE(Japan), KICS(Korea), and CIC/CIE(China). Dr. Tomonori Aoyama(Director Sister Societies) will be planning and coordinating the visit in Tokyo for our delegates. If you have any questions regarding their visit, you may contact either Dr. Tomonori Aoyama (aoyama@mlab.t.u-tokyo.ac.jp) or myself.

Fanny Su (Manager)  
IEEE Asia Pacific Operations Centre/Communications Society Office  
[ieeeapo@pacific.net.sg](mailto:ieeeapo@pacific.net.sg)

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## **6. Asia Pacific Board Meeting Minutes at Globecom' 99**

6/Dec/99 18:30 ~ 20:30 @ Hotel Inter-Continental Rio at Rio de Janeiro, Brazil

Meeting materials: meeting agenda, TAC report, some guides (call for papers/participation) for conferences

### **1. Opening**

The Director, Dr. Byeong Gi Lee, opened and chaired the APB meeting on Dec. 6, '99 during Globecom'99. After the Director explained the meeting agenda, he asked Prof. D. P. Taylor of Canterbury University in New Zealand to start self-introduction. Because the site of this meeting lies

the opposite side of “globe” and quite far from Asia Pacific area, this APB meeting didn’t have many attendees. The number of attendees was 35, half of APB meeting at the last Globecom @ Sydney. (Attendee List is omitted. Please refer to <http://www.comsoc.org/~apb/>)

## 2. Last Meeting Minutes Approval

Along the meeting material prepared by APB Secretary, Dr. Hongbeom Jeon, The Director asked to Dr. Naoaki Yamanaka, another APB Secretary to explain the last meeting minutes held in Vancouver. Dr. Yamanaka scanned through the minutes, including ‘99 APB operation plan, APB status reports by each committee. Finally, as the topic of the last meeting, it was notified that in the APB Logo contest the Logo was finally decided (as on the top page of the meeting material) and the contest winner was given a prize of \$200 and the certificate. For the material, there was not any question / comments and additional documents, and minutes were approved without amendment.

## 3. Interim Meeting Report

The Secretary, Dr. H. Jeon reported the Interim APB meeting during APCC at Beijing. In about 10 attendees, some ComSoc Asia Pacific Chapter Chairs are included as guests. There were reports on the Chapter Chars meeting held just before the interim meeting. As a remark, it was reported that during the rest term of the current period of APB officers, Prof. Sasase and Dr. Ohtsuki of APB Information Service Committee have the AP Newsletter’s responsibility instead of the previous editors. And as another important issue, New APB Director Nomination/Election procedure should be done in this year. Prof. T. Aoyama, the former director is supposed to become the nomination committee chair, reported the status of the procedure.

## 4. APB Status Report

Each chair of committee reported their status.

### 4.1 Technical Affairs Committee (TAC)

Since both the Chair, Dr. Hagishima and the secretary, Dr. Nishikido did not attend the meeting, T. Onoda explained the TAC status on behalf of them, especially onto the APB Best Paper Award. (The status report was prepared separately from the meeting material.) As the 1<sup>st</sup> eligible conference of the Award, APCC/OECC 99 was selected. The Selection Committee was organized by 6 technical session chairs of APCC/OECC and 3 members of APB TAC, totally nine members. From pre-nominated 14 papers based on the paper reviewing score, Selection Committee held in Oct. 21 at APCC/OECC 99 decided the following paper as a winner; “ANSWER: Information Routing based on Active Networks” J. Zhang & M. Ott (C&C Research Lab.). There was a awarding ceremony in Conference Banquet at Oct.21, and a tentative certificate and a prize of \$500 were given to the authors (\$250 from APB, and \$250 from the organizing committee of APCC/OECC). The example of the award certificate (plate) was shown in the meeting, which was originally signed by the APB Director and the APCC/OECC chair.

The presentator = Dr. Sanghoon Lee, the Vice Director.

### 4.2 Meetings and Conferences Committee (MCC)

The MDC chair, Dr. DK Sung reported Paper Presentation Statistics of major APB sponsored conference. He mentioned about the comparison of paper numbers at Globecom 98 & 99. The paper ratio from AP region greatly decreased from 45% at Globecom 98 held in Asia-Pacific, Sydney to 20% at Globecom 99 @ Rio de Janeiro. It was indeed because of the site, far from Asia-Pacific. However, considering AP regional membership occupies only 16% of the total one, AP regional activity in GCOM99 was maintained proportionally to its membership. Also, the future

Conferences sponsored by APB were introduced. Except 4 conferences ordinary supported by APB: APCC, OECC, APNOMS, ISPACS, two more conferences will be sponsored by APB in the next year.

#### 4.3 Information Services Committee (ISC)

Dr. Sasase, the chair of the Committee reported briefly. The print-out version of the latest AP Newsletter, No.16 was also distributed to the attendees. Concerning the good quality both of the AP region Home Page and the Newsletter, the chair expressed his gratitude to the vice chairs and editors. As a special, Dr. Kheong and Mr. Chui, Newsletter Vice Chair and Newsletter Assistant Editor had recently become unable to continue the editing job because their responsibilities at their works increased. So, Dr. Ohtsuki, the ISC Secretary, volunteered to edit the newsletter instead of them. Thus, No.16 of the newsletter was issued and kept its quality high as well as former issues by the previous editors. The chair also encouraged the attendees to access the AP homepage:

<http://www.fujitsu.co.jp/hypertext/flab/APR/>

#### 4.4 Membership Development Committee (MDC)

The Chair, Dr. HH Lee, had prepared good amount of report. At the meeting, he mentioned about two tables in the meeting material's page 20, the analysis of the statistics of membership. The 1<sup>st</sup> one is yearly increase of the number of AP region members. During Aug. '98 - Aug. '99, our colleagues increase approximately 1000 (14%) and exceed 9000. The 2<sup>nd</sup> one is statistics of membership grades. The Chair commented the ratios of the fellow (1.0%) and the senior member (7.3%), were still low compared with the averages of ComSoc. Additionally, the Director explained the current numbers of membership classified by country.

#### 4.5 Chapters Coordination Committee (CCC)

The chair, Dr. KC Chen, gave a brief explanation of CCC. By the Director's suggestion and support, the 1<sup>st</sup> Chapter chair meeting was held at APCC 99 in Beijing. Representatives from 6 chapters attended the meeting. In the Chapter chair meeting, Korea and Taiwan chapters presented their status reports. Also, there was a discussion to regularize the Chapter chair meeting at every APCC, and it was authorized without objection. The Director appreciated this regularization of the meeting so high and professed to support this decision.

#### 4.6 Student Travel Grants

Dr. SW Seo, the Secretary of MDC, prepared the Student Travel Grants report. For WCNC 99 and Globecom 99, Travel Grants were carried out. The Director scanned through and commented that the minor change in the procedure was made. The Grants was mostly based on the paper reviewing score but also the economical difficulties depending on country were taken into account for the decision of approval.

#### 4.7 Treasurer

The Treasurer, Dr. DH Cho said there was nothing to report, because there was no problem in accounting.

#### 4.8 AP Office

Ms. Fanny Su, the manager of AP office located in Singapore could not attend the meeting. The director scanned through the report. As the Topic, AP Office coordinated 2 DLTs (Distinguished Lecture Tours) in this year, which were reported in AP Newsletter issues No.15 & 16.

### 5. New AP Director Election

The term of the Director is up to December 99. For the new AP Director Election, the Prof. Aoyama, the former Director, organized the nomination committee. He invited Dr. D. Taylor, Dr. Lin-Shan Lee, Dr. B.G. Lee, and T. T. Tjhung for the member of this nomination committee. They discussed and concluded that Dr. N. Ohta, the current APB Vice-Director, is the right person to be nominated as the new AP Director, who had been serving for APB for a long time. Dr. BG Lee should report this decision of the nomination committee to ComSoc President. The Election will be done in next January. In the meeting, Dr. Ohta declared his determination for upcoming election.

#### 6. IEEE Fellow Elections

The Director notified that three AP regional members have been elected as IEEE Fellows. Dr. N. Ohta, the Vice-Director of APB, Dr. SH Lee, the Vice-Director of APB, and Dr. N. Yamanaka, the Secretary of APB. The Fellow award ceremony will be held in the next year. As reported by MDC chair, the ratios of the fellow (1.0%) is about half of the average ratios of Comsoc. The Director encouraged us to keep working hard and get the fellow titles in the future.

#### 7. IEEE ComSoc Elections

In next Spring, ComSoc Elections will be carried out. Some candidates from AP colleagues were introduced.

#### 8. Other Announcements

On behalf of Prof. Ejiri, Prof. Asatani introduced an upcoming APB sponsoring conference, APNOMS 2000 held in Nara, Japan during Oct. 11-13, and gave us fundamental information such like a important date. Dr. Asatani, the Chair of Communications Quality and Reliability Committee also informed us the IEEE workshop of communications quality and reliability will be held in Crete Island during April 17-21.

Regarding APCC 2000 held in Seoul during Oct.31-Nov.3, Dr. S H Lee presented some basic information, and also he mentioned about the APB Best Paper Award selection process. There was a difficulty in selecting one paper from nominated papers, which belong to different technical categories. So, about this selection process, there will be a future discussion.

Information for ICCS 2000 @ Singapore, ICCT 2000 @ Beijing, Dual Membership program of ComSoc & IEICE-CS, were also announced.

Dr. T. Miki, one of the AP Advisor, commented and present expectation for APB activity in the next millennium from his standpoint of the Vice-President of ComSoc society relation.

Finally, Dr. KC Chen, Dr. SH Lee, Dr. K. Asatani and all attendees expressed their gratitude to Dr. BG Lee, the current Director for his leadership and great efforts on handling big organization.

Dr. Tetsuya Onoda  
tonoda@cs.cmu.edu

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### **9. Malaysia International Conference on Communications 99 and International Symposiums on Consumer Electronics 99**

Comsoc Chapter Malaysia has successfully organized the 4<sup>th</sup> Malaysia International Conference on Communications 99 (MICC99) in collaboration with the 4<sup>th</sup> IEEE Asia Pacific International Symposiums on Consumer Electronics 99 (ISCE), held at the resort style Century Mahkota Hotel, the historic city of Melaka, 17<sup>th</sup> to 19<sup>th</sup> November 1999. The conference was jointly organized by

Universiti Kebangsaan Malaysia (UKM) and Universiti Putra Malaysia, headed by Dr Mahamod Ismail of UKM, the Comsoc Chapter Secretary.

For this conference the theme "Towards Convergence" was selected. This is appropriate as not only has the phrase caused so much excitement in recent years but also this conference has brought together two conferences which hitherto looks at a narrower scope of the ICT. (ISCE in the main represents interests in the consumer and broadcasting technology).

About 160 papers have been presented over the 2 1/2-day period, 100 for the MICC section and the rest for the ISCE. The papers covered a wide ranging topic of interests in Wireless, Photonics, Internet, ATM and other Web based technology.

Some 120 delegates attended the conference. Besides Malaysia, the delegates hailed from countries far and wide namely Brazil, France, Belgium, UK, Finland, Germany, Canada, Australia and of course neighbouring countries such as Singapore, Hong Kong, Korea, Taiwan and Japan

The conference was officially opened by Haji Salleh Masduki, Vice President of Multimedia Development Corporation (MDC), followed by a keynote address given by Professor Lawrence Wong of NUS, Singapore, on Robust Video Transmissions over Wireless.

Two tutorials were presented in the first day. One on Ad Hoc Networks and Software Radios presented by Prof Lawrence Wong, and the other on CD Technology presented by Dr Prem Sivasamy, Stefan Mozar and Dr Pan Feng of Singapore Polytechnic.

Tentatively, the 5<sup>th</sup> MICC is planned to be held in Kuala Lumpur in October or November 2001 following the alternating pattern we have followed so far: KL(93), Langkawi(95), KL(97), Melaka(99), and back to KL(01). We are expecting that the 6<sup>th</sup> MICC should be held in another provincial city and in conjunction with the Asia Pacific Conference on Communications.

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**10. IEEE AEROSPACE & ELECTRONIC SYSTEMS, COMMUNICATIONS  
AND  
LASERS & ELECTRO-OPTICS, SOCIETY CHAPTER-INDIA  
MAJOR TECHNICAL ACTIVITIES IN 1999**

The Royal Society of Uganda awarded Fellowship of the Royal Society of Uganda to the Chair of above Chapter in of achievement through education, training, and higher level of employment in Information Technology Communication.

The Chapter has technically participated in organizing "ELITEX'99" on Technologies developed in Electronics during February 2 & 3, 1999 at India Habitat Centre, New Delhi. It was indeed a great success and attracted the maximum number of visitors for such exposition organized in the recent past. During the exposition the following New Software Products were released.

\* Multimap, Leap Office Ver.2.0, Communication Co- Processor Chip, CD on Bilingual Hindi Dictionary

\* Participants in Bangalore also participated via Video Conferencing link through INSAT designed and developed by STPI. It is first of its kind.

The Technology Sessions on Information Technology, Strategic Electronics, Communications, Micro-Electronics & Photonics, Technology Development Programs of DoE, Material & Components and Panel Discussions on "Indigenous Technology Development for Improving the Global Competitiveness of the Electronics & IT Sector in India" was well attended. The exhibition has shown tremendous potential and created the impact both within and outside in terms of awareness and availability of indigenous technologies/products.

Following technologies were transferred to the industry for its full commercial exploitation.

Micro Remote Terminal Unit, Versatile Color Sensor, Integrated Receiver Decoder System, Prototype order placed for 25 nos. for Agriculture products

The major event of the Chapter "1999 IEEE International Conference on Personal Communications (ICPWC'99)" was held during Feb. 17-19, 1999 at Rajputana Palace Sheraton, Jaipur, India. The response was overwhelming. 187 Participants from 25 countries attended. There were 24 technical sessions with 101 papers, 4 exclusive tutorials and the Plenary and Panel discussion sessions during the Conference. The Plenary session was Chaired by Shri P.S.Saran, Member, Telecom Commission, Govt. of India. Nearly 90% of the technical papers were presented. This is an incredible achievement. To encourage participation from the semi-urban and rural areas of India, 38 complimentary registrations were granted to the colleges and universities around Jaipur. This will also ensure the technical activities of IEEE and the Chapter are known in the area around Jaipur. 15 complimentary copies of the proceedings and tutorials notes were given to volunteer students from the local engineering colleges who helped organize and ensure the smooth running of the Conference. 200 copies of the proceedings shipped to IEEE for wider circulation throughout the world. Few copies of the proceedings are still available with the undersigned and can be obtained on payment of Rs.2000/- in the name of ICPWC on cost to cost basis.

The Chapter along with India Council and Delhi Chapter arranged the Technical Activities Board Colloquia visit to Delhi. A Dinner was hosted by the Chapter. Secretary, Ministry of Information Technology and other senior officers joined the Dinner discussions on the various projects, which can be initiated on mutual cooperation basis. The TAB- Colloquia Committee lead by IEEE President Prof.K.Laker included Mr. Michael Adler, Prof.Vijay Bhargava, Mr.Shah Rajgopal, Ms.Mary Ward Callan, Ms.Fanny Su and others. All the colloquia delegates were impressed with the vitality and energy of members/delegates/students they met. The delegation visited Delhi College of Engineering and met IEEE Student Chapter members.

The Chapter along with India Linux Users' Group-Delhi Chapter arranged one full day Seminar and Demo on Linux Technology Applications on September 19, 1999. More than 145 participants attended. It was to promote the use of Linux and demonstrate the power of the open source environment and applications to users from all walk of life.

The Chapter along with Delhi-Chapter arranged a lecture by Prof. Roop L. Mahajan of University of Colorado, Boulder on "Artificial Neural Networks for Engineering Applications" at IIT Delhi on August 23, 1999. The topic generated lot of interest and Prof. Mahajan gave free copy of the Software developed at Boulder to the interested participants.

The Chapter has technically sponsored 42nd Annual Technical Convention of IETE-ATC-99 in 25-26 September 99 on "IT for Socioeconomic Developments". The ATC was well attended and generated interest in IT applications in Society, Commerce, Socioeconomic Development, Spectrum requirement for Services, and Vision & Policy incentives.

The Chapter along with Delhi Chapter organized a lecture by Prof. Vijay Bhargava on the following:

- \* What are Third Generation Mobile Communication Systems
- \* Evolution to the Third Generation
- \* Spread Spectrum Techniques
- \* CDMA Systems for Mobile Communications

On 29th Sept. at C-DOT. More than 125 participants attended the above.

The Chapter has sponsored the formation of New IETE Student Forum at MREC-Jaipur. Prof.KEN LAKER, President, IEEE inaugurated the same and delivered keynote on "Switched Capacitor Filter for Precise Analog Signal Processing" on Dec.6,1999. Prof.V.K.Bhargava was the guest of honour on the occasion. During the visit of the President, the discussions on the following were held with the President of IETE. IETE, India is the Sister Society of IEEE-Communications Society and also have mutual agreement of cooperation with IEEE.

- Renewal of IEEE contract with IETE India.
- Publication of materials in each other's publication common membership/supplementary to each other.
- Payment of IEEE membership in Indian Rupees.

- The Chapter has partially sponsored "Sixth International Conference and Workshop on Electromagnetic Interferences and Compatibility INCEMIC-99" organized by Society of EMC Engineer (India) Delhi-Chapter during Dec.2-8, 1999. 6 Intensive tutorials by International experts including 5 from outside India were undertaken. 130 Registered delegate attended the tutorials. The conference had 107 technical papers presented in 23 sessions. It was attended by 217 registered participants. Panel discussion on "Indian Perspective Policy on Global EMC Obligations" were held. 15 Industries participated in the trade show organized with the above. One Special Plenary Session was conducted on "Advanced Technology and Product Appraisal" in which 7 leading manufacturing agencies of EMC equipment gave presentation on the state of the art technologies.

The Chapter has partially sponsored "National Symposium on Advances in Microwave, Millimeterwave and Infrared Technology - SAMMIT'99" at Centre for Advanced Studies in Microwave and Millimeterwave Technology, Calcutta during December 21-24, 1999. The SAMMIT was well attended both by National and International experts. 80 Technical papers were presented during the SAMMIT in 12 technical sessions. 83 participants both within and outside India attended the SAMMIT.

- 125 Technical popular books in the area communication and information technology were given as complimentary to the Library of Rama Krishna Mission, Kanpur.
- All the technical journals received from the IEEE Communications Society by the Chapter have been given after its use from members to the Library of Father Agnal Polytechnique as complimentary.

Activities planned during 2000

- ELITEX-2000
- INTELLECT' 2000
- National Symposium on Advances in Microwaves and Lightwaves
- ICPWC'2000
- Distinguish lecture program under IEEE Communication and other Societies.

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**We would like to thank all contributors to the AP Newsletter**

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AP Newsletter

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