

First IEEE AP-S Region 10 Chapter Chairs' Meeting

25 November 2002, at Mitsubishi Electric Corporation, Ofuna Japan

Meeting Minutes

Attendees(Alphabetical order of Chapters):

Dr. Tong (Hong Kong Chapter, on behalf of Prof. Luk)

Prof. Ito (Japan Chapter)

Prof. Eom (Korea Chapter)

Prof. Zhang (Nanjing Chapter)

Prof. Li (Singapore Chapter)

Observer:

Prof. Uslenghi (Past President of AP-S)

Dr. Furuhashi (Chair of ISAP Standing Committee)

Prof. Nakano (AP-S AdCom Member)

Dr. Makino (Vice Chair, Japan Chapter)

Dr. Miyashita (Treasurer, Japan Chapter)

16:10

Prof. Ito gave welcome message from AP-S Japan Chapter.

The meeting was initially planned by Profs. Zhang (Nanjing Chapter) and Ito (Japan Chapter), and it was approved by AP-S AdCom. It is honor to have the First Region 10 Chapter Chairs' Meeting in Japan.

16:15

Prof. Zhang presented scope of this meeting.

During AP-S meetings in US, we always have Chapter Chairs' Meeting. Seeing recent growth of AP-S region 10 activities, we propose regular Region 10 AP-S meeting at major conferences. MTT-S has already organized it at the time of APMC, so does AP-S.

16:20

Every attendee introduced himself.

16:35

Prof. Uslenghi gave greetings from AP-S AdCom.

Summary of activities of Chapters were distributed (from Prof. Jackson).

IEEE AP-S has co-sponsorship program for AP-S activities throughout the world.

16:45

Summary of Chapter Activities

1. Dr. Tong presented activities of Hong Kong Chapter(on behalf of Prof. Luk).
2. Dr. Makino presented activities of Japan Chapter.
3. Prof. Eom presented activities of Korea Chapter.
4. Prof. Zhang presented activities of Nanjing Chapter.
5. Prof. Li presented activities of Singapore Chapter
6. A report of cctivities of Queensland Chapter (from Prof. Bialkowski) was distributed and reviewed.

Distributed documents are attached in Appendix.

Many questions and comments are interchanged. There were suggestions regarding Region 10 activities for example,

Sharing AP-S distinguished lecturer in region 10: Information should be exchanged throughout Region 10 Chapters when the lecture is to be organized.



17:10

Discussion on future Region 10 activities and conclusions

1. Regularization of Region 10 AP-S Chapter Chairs' Meeting has been agreed. The second meeting shall be during ISAPE 2003 in Beijing. Prof. Zhang will organize it.
2. Prof. Uslenghi remarked that AP-S technical co-sponsorship was always provided by AP-S AdCom for ISAP and ISAPE series, it may be extended to a Asia-Pacific series on Antennas & Propagation if it is authorized. The technical co-operation excludes financial support, however, some benefits may be provided such as: free advertisement on AP Magazine, to join the data-base of IEEE Explore, etc.



Attachment

Distributed documents from each chapter

**2002 AP-S CHAPTER REPORT
ISAP MEETING**

Tokyo, Japan

SUMMARY OF ACTIVITIES

1. We presently have 61 active chapters:

U.S. chapters: 22

Canada chapters: 4

Overseas chapters: 35

2. The AP-S Web page (www.icceups.org) has been updated with the following information:

- An updated list of Chapter Chairs
- Back issues of the Chapter News
- An updated version of the Chapter Handbook
- Overview information about chapters and the IEEE
- Helpful links to IEEE contacts for chapter and section support

(Thanks to Andy Mathis for serving as the AP-S webmaster).

3. A new welcome letter for new chapters has been prepared (see attached). This will be sent out by the IEEE to all new AP-S chapters.
4. A Chapter Chairs lunch was held during the 2002 AP-S symposium in San Antonio.
5. The 2001 Best Chapter contest has been conducted. The winner (Moscow) received the award during the Banquet at the 2002 AP-S Symposium in San Antonio.

2002 FINANCIAL SUMMARY

Budget for 2002: \$20,000

Support for 2002 is as follows:

| | |
|---------------------------------------|-----------------|
| Annual Chapter support (22 chapters): | \$11,350 |
| Special Project support (6 chapters): | \$2,650 |
| Travel Grants (5 chapters): | \$5,000 |
| Best Chapter Award (1 chapter): | \$1,000 |
| TOTAL: | \$20,000 |

2002 SUPPORT BREAKDOWN

Annual Support:

| Chapter | Annual Support |
|--------------------------|----------------|
| Atlanta | 350 |
| Baltimore | 500 |
| Bombay | 500 |
| Columbus | 500 |
| Denver-Boulder | 500 |
| Georgia | 500 |
| Hong Kong | 500 |
| Houston | 300 |
| Lithuania | 500 |
| Malaysia | 500 |
| Nanjing | 500 |
| Phoenix | 350 |
| Russia - Moscow | 1000 |
| Russia - Nizhny Novgorod | 500 |
| Russia - St. Petersburg | 500 |
| Russia - Saratov-Penza | 350 |
| Taipei | 1000 |
| Ukraine - East | 500 |
| Ukraine - Kharkov | 500 |
| Ukraine - West | 500 |
| Washington | 500 |
| Winnipeg | 500 |
| Total: | 11,350 |

Special Project Support:

| | | |
|-----------------|-------|--|
| East Ukraine: | \$500 | Short course: <i>Mathematical Models of Computational Electromagnetics</i> |
| Kharkov: | \$500 | Workshop: <i>Ultra Wideband and Ultrashort Impulse Signals</i> |
| Moscow: | \$500 | Creation of AP-S Library and meeting/seminar room |
| Phoenix: | \$450 | Co-sponsorship of the first annual <i>Workshop on RF Devices and Packaging for Wireless Communications</i> |
| St. Petersburg: | \$200 | All-Russia student conference in Radiophysics |
| Winnipeg: | \$500 | Student paper contest for ANTEM conference |

Total: \$2,650

Travel Grants:

Croatia: \$1,000

East Ukraine: \$1,000

Georgia (FSU) \$1,000

New South Wales: \$1,000

Poland: \$1,000

Total: \$5,000



11/21/02

Dear Prof. XXX:

On behalf of the Antennas and Propagation Society, I would like to welcome you as the new Chapter Chair of the XXX chapter. As the Chapter Activities Coordinator for the AP-S Society, one of my main duties is to serve as your link to the AP-S Society.

Please visit the AP-S web page (www.ieeeaps.org), which has a lot of useful information about our society, as well as a link to the AP-S chapter web page, where more information can be found regarding AP-S chapters (e.g., the Chapter Handbook, overview information about chapters and the IEEE, information on the AP-S Distinguished Lecturer Program, a listing of all the active chapters, back issues of the Chapter News, links to IEEE chapter and section services, contact information, etc.)

The AP-S Chapter Handbook (available on the AP-S chapter web page) is a particularly useful document that discusses in detail the interaction between AP-S chapters and our society, including your responsibilities as Chapter Chair and also the services that our society provides to you and your chapter. I would encourage you to download and read the Chapter Handbook carefully, although I would like to briefly mention a few of the most important items here in this message.

Technical Meetings

One of your main duties as Chapter Chair is to organize technical meetings within your chapter. After each meeting is held, please report the meeting information as soon as possible to me, so that the information can be published in the AP-S Magazine (in the Chapter News section) in a timely manner. I would ask that you send the information to me within two weeks after each meeting is held. The simplest way to report the meeting information is by sending me a short email message after each meeting, giving me the relevant information. The preferred format is shown in the following examples:

March 21, 2002. "Globalstar L & S Band Active Array Antennas," Dr. Alan Chertette, TRW Space & Electronics, Redondo Beach, CA, USA.

April 11, 2002. "Electromagnetic Field Solutions," Prof. Ismo V. Lindell, Electromagnetics Laboratory, Helsinki University of Technology, Espoo, Finland.

In addition to reporting meeting activity to me, the IEEE requires that you report all meetings to Regional Activities on the L31 form [<http://www.ieee.org/sesreports>]. If you prefer to send me your meeting information by emailing me a copy of the L-31 form, instead of sending me a separate email, that is fine. The most important thing is that I get the information as soon as possible after each meeting.

Please keep in mind that an IEEE requirement is that all chapters hold at least two technical meetings per year.

The Chapter Handbook discusses the IEEE AP-S Distinguished Lecturer Program, and how your chapter can take advantage of this in order to have two distinguished lectures per year at no cost to your chapter.

Society Support

Our society makes several types of financial support available to the chapters, including annual support, special-project support, Chapter Chair Travel Grants, and the Best Chapter Award. Please see the Chapter Handbook for a full explanation of these types of support. In order to apply for annual support, you simply need to send me an email requesting the amount of support and giving me a brief explanation of the intended use (the limit is \$500 per year for joint chapters and \$1,000 per year for AP-S only chapters).

Annual Report

After the end of each year, one of your duties will be to send to me an annual report that summarizes all of your chapter activities for the year, and the financial status of your chapter. (Please note that this report form, which is for the AP-S Society, is separate from any reporting that is done to the IEEE.) The annual report form also gives you the opportunity to provide comments on how you feel that our society can improve its relation and services to you (although your comments to me are always welcome at any time). The annual report form is normally emailed to the chapters in January, and the completed report is normally due back to me about a month later. Please note that completion of the annual report is a requirement in order for your chapter to receive any type of financial support from our society.

Annual Meeting

Every year our society holds a Chapter Chair Lunch at the annual IEEE AP-S Intl. Symposium. Attendance is not required, but I would encourage you to attend as many of these meetings as possible. It is a good opportunity to meet and interact with your fellow Chapter Chairs.

Address Information

I would ask that you please send me your complete address information, including phone, fax, email, and web address for your chapter (if you have one) so that this information can be put in my records and on the AP-S web page.

Thank you very much, and I look forward to working with you and your chapter.

Best Regards,



David R. Jackson
AP-S Chapter Activities Coordinator

Department of ECF
University of Houston
Houston, TX 77204-4005

phone: 713-743-4426
fax: 713-743-4444
email: djackson@uh.edu

IEEE AP/MTT Hong Kong Joint Chapter

Activities in 2002

A. Seminars

1. "Developing Strategy of the Electronics, Information and System Sciences in China", by *Prof Zhang Zhifan, Department of Information Sciences, National Natural Science Foundation of China. (January 18, 2002)*
2. "Microwave Photonic Devices for Radio-over-Fiber System", *Dr Kenen Li, Photonic Technology Division Communications Research Laboratory (CRL), Independent Administrative Institution, Japan (Feb. 26, 2002)*
3. "Derived CAD Formulas of RF Circuit Components and Antennas by Fuzzy Electromagnetics," by *Prof. Y. L. Chow, Dept. of Electronic Engineering, City University of Hong Kong (Feb. 1, 2002)*
4. "Coplanar Patch Antennas", *Dr Kenen Li, Photonic Technology Division Communications Research Laboratory (CRL), Independent Administrative Institution, Japan (Mar. 8, 2002)*
5. "Microstrip antennas with reduced surface-wave and lateral-wave excitation", by *Prof David R Jackson, Department of Electrical and Computer Engineering, University of Houston, USA (March 18, 2002)*
6. "Dynamic field solutions in space and time using MEFiSTo", *Dr Pomon So, Department of Electrical and Computer Engineering, University of Victoria, BC, Canada (May 3, 2002)*
7. "Relativistic plasma microwave electronics," by *Prof. Shenggang Liu, University of Electronic Science and Technology of China, Chengdu, China (May 8, 2002)*
8. "Ultra-wideband antennas", *Prof. Ruan Chengli, Institute of Applied Physics, University of Electronic Science and Technology of China, China (May 31, 2002)*
9. "Time domain electromagnetics – Integral equation solution", by *Prof Sadaiva M Rao, Department of Electrical and Computer Engineering, Auburn University, Auburn, USA (June 3, 2002)*
10. "Terahertz science and technology," by *Prof. Shenggang Liu, University of Electronic Science and Technology of China, Chengdu, China (June 28, 2002)*
11. "Dual-Polarized Patch Antennas with L-Shaped Probe Feeds", *Mr. H. Wong, CityU. (Aug. 1, 2002, CityU)*
12. "Active Integrated Antennas", *Prof Peter S. Hall, The University of Birmingham, UK. (Aug. 12, 2002 in CUHK & Aug. 13, 02 in HKUST)*
13. "Miniaturised and Multifunction Antennas for Future Communications Terminals" *Prof. Peter S. Hall, The University of Birmingham, UK. (Aug. 13, 2002, HKUST)*
14. "Three-Dimensional Holographic Television Using Optical Scanning Holography", *Dr. Tung-Chung Poon, Dept. of Electrical and Computer Engg., Virginia Polytechnic Institute and State University, USA. (Aug. 16, 2002, CityU)*
15. "Development of Efficient CAD Tools for the Simulation of RFIC and MMIC Packages", *Prof. R. Mittra, Electromagnetic Communication Laboratory, The Pennsylvania State University, USA (Oct. 4, 2002)*

16. "Novel Applications of the Dielectric Resonator", Prof. Thomas Wong, Department of Electrical and Computer Engineering, Illinois Institute of Technology, USA (Oct. 28, 02)
17. "Scattering from randomly Rough Surfaces: Application to Remote Sensing", Prof. Marc Saillard, University of Provence in Marseille, Remote Sensing and Microwave Applications Team of Fresnel Institute, France (Oct. 29, 02)

Seminars to be held

18. "Ultra-Wideband Radio (UWB): A New Technology for Short Range, High Speed Wireless Connectivity", Prof. Sumit Roy, Dept. of Electrical Engineering, University of Washington, Seattle, USA (Nov. 15, 02)
19. "Next Generation Issues for Wireless Local Area Networks (802.11)", Prof. Sumit Roy, Dept. of Electrical Engineering, University of Washington, Seattle, USA (Nov. 20, 02)
20. "Architectures, Protocols and Management of Wireless Networks", Prof. Victor C. M. Leung, Dept. of Electrical and Computer Engineering, The University of British Columbia, Canada (Dec. 3, 2002)

B. Short Course

1. "State of the Art in Mobile Communication Network Planning, Base Station Antennas and Smart Antennas" (Sept. 10-11, CityU)
Speakers: Prof. Dr.-Ing. Werner Wiesbeck, University Karlsruhe, Germany &
Prof. K. M. Luk, City University of Hong Kong, HK

There were about 40 attendees. The income of the short course was HK\$ 5,600. The expenses for the lunch and dinner were HK\$1,430 and HK\$ 2,400, respectively. The net income was HK\$ 2,770.

C. The Third Postgraduate Conference

Held in PolyU on Sept. 28, 02.

Summary of Chapter Activities

(January 2002 to November 2002)

for IEEE AP-S Region 10 Chapter Chairs' Meeting at Mitsubishi Electric Corporation, Ofuna Japan

25 November 2002

IEEE AP-S Japan Chapter Chair

Prof. Koichi Ito

IEEE AP-S Japan Chapter

Established in 1972 as IEEE AP-S Tokyo Chapter

Current number of Members: 541

Chapter Officers

Chair: Prof. Koichi Ito (Chiba University)

Vice Chair: Dr. Shigeru Makino (Mitsubishi Electric Corporation)

Secretary: Prof. Hiroyuki Yoshimura (Chiba University)

Treasurer: Dr. Hiroaki Miyashita (Mitsubishi Electric Corporation)

Technical Meetings

Organized meetings by AP-S Japan Chapter

Every month the Chapter organizes special lecture given by experts from various areas.

January 25, 2002

Nonlinear sciences and application to image processing: selforganization by chemical waves

Prof. Hidetoshi Miike

Department of Perceptual Sciences and Design Engineering, Yamaguchi University

February 21, 2002

Introduction of personal robot PaPeRo

Mr. Yoshihiro Fujita

Personal Robot Center, Multimedia Research Laboratories, NEC Corporation

April 18, 2002

Antennas and eigenfunctions

Prof. Naoki Inagaki

Department of Electrical and Computer Engineering, Nagoya Institute of Technology

May 16, 2002

Ultra-high speed optical fiber communication systems for information infrastructure

Prof. Kiyoshi Nakagawa

Department of Electrical Engineering, Yamagata University

June 27, 2002

Basic technologies and system technologies in antenna engineering

Prof. Tadashi Takano

The Institute of Space and Astronautical Science

July 25, 2002

Where is the digital broadcasting and where is it going ?

Prof. Aiichiro Tsuzuku

Department of Electrical and Electronic Engineering, Faculty of Science and Technology, Meijo University

September 19, 2002

Recent activities on the future development of IMT-2000 and systems beyond IMT-2000

Dr. Fumio Watanabe

Radio Access Network Department, "au" Engineering Division, KDDI Corporation

October 17, 2002

For the useful utilization of spectrum in the IT Age

Mr. Fusaki Matsui

Director-General of the Hokuriku Regional Bureau of Telecommunications

Co-organized meetings

1. Joint research meeting with IEICE Antennas and Propagation Society every month.
2. ISAP-i02 26 November to 28 November 2002 at YRP.

Non-technical (e.g. Professional or Administrative) Meetings**I. First Region 10 AP-S Chapter Chairs' Meeting organized**

25 November 2002 at Mitsubishi Electric Corporation

II. Meetings attended

1. IEEE AP-S AdCom Meeting
16 June 2002 in San Antonio (AP-S Symposium)
2. IEEE AP-S Reviewers' Luncheon
19 June 2002 in San Antonio (AP-S Symposium)
3. IEEE AP-S Chapter Chairs Lunch
20 June 2002 in San Antonio (AP-S Symposium)

III. Chapter officers' meeting

Held 5 times: 6 February, 22 May, 12 June, 2 July, and 18 October

Telephone & Exchanges of E-mails: Many times as required

Workshops

3rd and 4th Workshops of design and analytical technique in the field of antennas and propagation

-Elementary course of adaptive array signal processing and high resolution direction finding-

Speaker: Prof. N. Kikuma, Nagoya Institute of Technology

Date: 12 June and 2 July 2002.

Description: This workshop was first held by the IEICE Technical Group of Antennas and Propagation previously and held again in response to the requests from many members of AP-S. The number of attendees was total 154 from various areas.

Others

1. **2002 IEEE AP-S Japan Chapter Young Engineer Award**

The award has 12 years of heritage.

Award application announced on 2 September 2002

Four recipients selected on 18 November 2002

Award with 50,000 Yen for each recipient

2. **Support of IEEE Fellow and Senior Member Program**

Chapter is supporting IEEE Fellow and Senior Member Program. This year the following members of the Chapter received the Fellow awards.

Prof. Hiroyoshi Ikuno, Kumamoto University, "For contributions to the development of new numerical methods and asymptotic techniques in computational electromagnetics"

Dr. Osami Ishida, Mitsubishi Electric Corporation, "For leadership in research and development of microwave devices for mobile communication"

Prof. Yoshio Yamaguchi, Niigata University, "For contributions to the development of real-time and fully polarimetric synthetic aperture radar systems for short-range sensing of buried objects"

The Chapter nominated a number of Senior Members.

3. **Report published on IEEE Antennas and Propagation Magazine** (Vol.44, No.2, p.131, 2002) regarding a Chapter-organized lecture given by Prof. T. L. Sarkar, Syracuse University, as an IEEE AP-S Distinguished Lecture on 27 November 2001.

4. **Continuous update of Chapter homepage**(in Japanese):

<http://homepage1.nifty.com/ieeetokyo/chapter/aps/index.htm>



5. **General assembly meeting** on 12 December 2002 at Kikai-Shinko-Kaikan, Tokyo.

6. **Election of 2003-2004 Chapter Officers:**

The following candidates are recommended as new officers to be formally elected at the general assembly meeting on 12 December 2002.

Chair: Dr. Shigeru Makino (Mitsubishi Electric Corporation)

Vice Chair: Prof. Toru Uno (Tokyo University of Agriculture and Technology)

Secretary: Dr. Hiroaki Miyashita (Mitsubishi Electric Corporation)

Treasurer: Prof. Masaharu Takahashi (Tokyo University of Agriculture and Technology)



Call for Papers

2004 INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION

August 17-21, 2004, Sendai, JAPAN

Empowering the World of Communications via Antennas

The 2004 International Symposium on Antennas and Propagation (ISAP'04) will be held at Sendai International Center in Sendai, Japan, August 17(Tuesday) through August 21(Saturday), 2004. This Symposium, the ninth ISAP, is sponsored and organized by the Communications Society of the Institute of Electronics, Information and Communication Engineers (IEICE), and is held in cooperation with the International Union of Radio Science (URSI), the Antennas and Propagation Society of the Institute of Electrical and Electronics Engineers (IEEE/AP-S), the Antennas and Propagation Professional Network of the Institute of Electrical Engineers (*tentative*), the Chinese Institute of Electronics (*tentative*), and the Korea Electromagnetic Engineering Society (KEES).

OBJECTIVE

ISAP'04 is intended to provide an international forum for the exchange of information on the progress of research and development in antennas, propagation, electromagnetic wave theory, and related fields as shown in the SCOPE. It is also an important objective of this meeting to promote mutual interaction among participants.

SCOPE

This symposium will treat a wide range of subjects on antennas, propagation and electromagnetic wave theory as suggested below. Papers concerned with other aspects of these subjects will also be considered. In addition, special topics treating emerging technologies heralding a new era in wireless communications and applications are invited for consideration.

1. Special Topics

- UMMO Transmission Technologies
- UWB and Impulse Radio
- 4th-Generation Mobile Wireless Systems
- Emerging Technology of Adaptive Array
- Space-Time Channel Characterization and Modeling

2. Antennas and Related Topics

- Microstrip and Printed Antennas
- Active and Integrated Antennas
- Array Antennas, Phased Arrays and Feeding Circuits
- Mobile and Base Station Antennas
- Adaptive and Smart Antennas
- Antenna Design and Analysis
- Antenna Measurements
- Multiband Antennas
- Reconfigurable Antennas
- Millimeter Wave and Sub-Millimeter Wave Antennas

- Reflector/Planar Antennas and Feeds
- Optical Technology in Antennas
- Others

3. Propagation and Related Topics

- Mobile and Indoor Propagation
- Diversity Technologies
- Millimeter and Optical Wave Propagation
- Earth-Space and Terrestrial Propagation
- Radio Meteorology and Astronomy
- Remote Sensing
- SAR Polarimetry and Interferometry
- Ionospheric Propagation
- Others

4. Electromagnetic Wave Theory

- Complex Media and Artificial Media
- Computational Electromagnetics
- Theoretical Electromagnetics and Analytical Methods
- High-Frequency Techniques
- Time Domain Techniques
- Inverse Problems
- Random Media and Rough Surfaces
- Scattering and Diffraction
- Waveguiding Structures
- Periodic and Band-Gap Structures
- Non-Linear Electromagnetics
- Others

5. Systems and Related Topics

- Biological Effects and Medical Applications
- High Power Microwave Applications
- Advanced Materials for EM Applications
- Subsurface Scanning
- Satellite Systems
- Ubiquitous Network Systems
- Radio Technologies for Intelligent Transport Systems
- EMC/EMI Simulations and Measurements
- EM Simulators, Visualization and Education
- Others

ISAP'04 WEB Page : <http://www.ieice.org/cs/isap/2004>

PREPARATION OF PAPERS

Original papers are solicited that have not been presented previously and that describe new contributions in the area suggested in the SCOPE. Each author is requested to prepare a 4-page camera-ready paper written in English, including all text, references, figures and photographs. The authors are requested to refer to the ISAP'04 Web Page (<http://www.ieice.org/ies/isap2004/>) for the detailed paper preparation instructions and the IEICE Copyright Transfer Form. The Proceedings will be available in both CD-ROM and hard copy format.

SUBMISSION OF PAPERS

Authors are requested to send their papers in Adobe Acrobat® 4.PDF format by electronic method. At the same time, a signed IEICE Copyright Transfer Form should be sent by post along with one original and two copies of paper. The detailed instructions of the electronic Web-based paper submission will be provided on the ISAP'04 Web Page. The deadline for the electronic paper submission is 29 Feb., 2004 and that for the hard-copies and copyright form is 14 March, 2004.

PRESENTATION

The working language is English. Poster Sessions will be scheduled. A limited number of computer demonstration spaces will be available for poster session papers.

WORKSHOP

Several workshops are scheduled to be held on August 17 (Tuesday).

EXHIBITION

Spaces for demonstration of softwares, books and products are also available with extra charge.

VENUE

Sendai is the largest city and the center of the Northeast (Tohoku) district of Japan. It is about 350 kilometers north of Tokyo, a two-hour bullet train ride from the metropolis. The city is called "Mori no miyako," the city of forest, since major streets in the city are lined with many trees. Sendai is also known as the hometown of Yagi-Uda antenna, which was invented by Profs. Yagi and Uda of Tohoku University. The ISAP'04 will be held at Sendai International Center, which is located on the foot of the Sendai castle.

YOUNG SCIENTIST TRAVEL GRANT

Young Scientist Travel Grant (YSTG) will be awarded by ISAP to several young overseas speakers who need financial support to present their papers.

The applicants must be less than 35 years old as of 21 August, 2004. The Symposium Steering Committee will select the winners and provide a part of traveling (depending on the distance from Japan and maximum about 100 thousand yen) and staying (about 50 thousand yen) expenses and registration fee at the symposium site. The YSTG Application Form will be able to be downloaded from ISAP'04 WEB page.

ORGANIZING COMMITTEE (OFFICERS)

| | |
|-------------------|---|
| Chairperson | K. Sawaya (Tohoku Univ.) |
| Vice Chairpersons | T. Masamitsu (NIT DoCoMo) C. Ibari (Kansai Gakuin Univ.) |
| Secretaries | S. Makino (Mitsubishi Elec.) T. Uno (Tokyo Univ. of Agri. & Tech.) |
| Honorary Members | T. Kitaharawa (Mitsubishi Elec.) Y. Mushiike (Tohoku Univ.) F. Ikegami (Kyoto Univ.) T. Setiguchi (Tokyo Inst. of Tech.) K. Nagai (Tohoku) S. Adachi (Tohoku Univ.) H. Yokoi N. Goto (Tohoku Univ.) M. Shinji (Tokai Univ.) K. Itoh (Furukawa Nac. Col. of Tech.) T. Takano (ISAS) T. Kagashima (Ibundi Univ.) |

STEERING COMMITTEE (OFFICERS)

| | |
|------------------------------|---|
| Chairpersons | K. Sawaya (Tohoku Univ.) |
| Vice Chairpersons | M. Ando (Tokyo Inst. of Tech.) K. Ito (Chiba Univ.) T. Hori (Fukui Univ.) |
| Secretaries | S. Makino (Mitsubishi Elec.) T. Cho (Tokyo Univ. of Agri. & Tech.) Q. Chen (Tohoku Univ.) |
| Technical Program | Y. Kerasawa (Univ. Electro-Comm.) |
| Young Scientist Travel Grant | Y. Oguwa (Hokkaido Univ.) |
| Public Relations | N. Kikumi (Nagoya Inst. of Tech.) |
| Publicity | T. Taya (NIT DoCoMo) |
| Financial Affairs | M. Tanaka (CRL) |
| Planning | Y. Koshiji (Mitsubishi Elec.) |
| Registration | J. Manabe (CRL) |
| Local Arrangement | M. Sato (Tohoku Univ.) |
| Social Program | H. Shoki (Tohoku) |

TIME TABLE

| | |
|---|-------------------|
| Final call for papers will be available in August 2003. | |
| Deadline for YSTG paper submission: | 1 February, 2004 |
| Deadline for paper submission: | 29 February, 2004 |
| Notification of accepted papers: | 29 April, 2004 |
| Deadline for advance registration: | 10 July, 2004 |

FURTHER INFORMATION

Please have a contact to the following ISAP 2004 WEB page

<http://www.ieice.org/ies/isap2004>

Annual Domestic Activities by IEEE Korea AP Chapter

(The following activities are co-sponsored by IEEE Korea AP Chapter and other organizations)

1. 2002 Workshop on Antenna Technology

(26 April 2002, Seoul)

- 3 domestic speakers and 3 foreign speakers

2. 2002 Spring Microwave and Wave Propagation Conference

(25 May 2002, Suwon)

3. 2002 Fall Microwave and Wave Propagation Conference

(14 September 2002, Kwangju)

of oral presentation papers

1) microwave active circuits : 26

2) microwave passive circuits : 26

3) antennas : 26

4) RF communication systems : 13

5) wave scattering and EMI/EMC : 13

4. 2002 Microwave and Millimeter Wave Workshop

(8 November 2002, Seoul)

2002 ANNUAL REPORT from NANJING CHAPTER

Reported by Prof. Wen Xun Zhang (Chairman of Nanjing Chapter)

Nov. 16, 2001

Nanjing (NJ) chapter is smoothly running along its schedule of technical activities in 2002, total 33 items technical activities are scheduled. Among them 20 items (60%) belong international exchanging, and 2 items (6%) were from Hong Kong SAR and Taiwan.

Two IEEE Distinguished Lecturer Programs had been sponsored and organized. Prof. David R. Jackson gave 2 excellent DL in March to both Shanghai and Nanjing. Prof. Theodore Van Duzer gave his DL in September.

A China Mainland-Taiwan-Hong Kong Joint conference on Radio Science & Wireless Technology was held in Shanghai University cooperated by the Chapter. 5 invited lectures and 95 session presentations were scheduled with 2 days

The accumulated amount of attendance in above separated technical activities is estimated over 1600 (~ 49 per times in average), among them about one quarter are IEEE members.

(to be continued)

Appendix

Summary of Technical Activities for 2002

| | Title of Activity | Attendance | | Meeting Form |
|----|--|------------|-------|------------------------------|
| | | Members | Total | |
| 1 | <u>Neural Networks for RF/Microwave Modeling and Design (1.5 h.)</u> Prof. Q.J. Zhang (01/18) | 12 | 35 | <i>Lec.</i> |
| 2 | <u>Leaky Waves on Planar Structures: The Good, the Bad and the Ugly (1 h.)</u> at Shanghai Prof. D.R. Jackson (03/11) | 8 | 36 | <i>Distinguished Lecture</i> |
| 3 | <u>Microstrip Antennas with Reduced Surface-Wave and Lateral-Wave Excitation (1 h.)</u> at Shanghai Prof. D.R. Jackson (03/11) | 8 | 36 | <i>Distinguished Lecture</i> |
| 4 | <u>Leaky Waves on Planar Structures: The Good, the Bad and the Ugly (1 h.)</u> at Nanjing Prof. D.R. Jackson (03/13) | 14 | 65 | <i>Distinguished Lecture</i> |
| 5 | <u>Microstrip Antennas with Reduced Surface-Wave and Lateral-Wave Excitation (1 h.)</u> at Shanghai Prof. D.R. Jackson (03/13) | 16 | 59 | <i>Distinguished Lecture</i> |
| 6 | <u>Complex Vectors and Dyadics (Lecture Series 1) (3 h.)</u> Prof. Ismo V. Lindell (04/02) | 23 | 104 | <i>Lec. Series</i> |
| 7 | <u>Basic Electromagnetic Equations (Lecture Series 2) (2 h.)</u> Prof. Ismo V. Lindell (04/04) | 18 | 86 | <i>Lec. Series</i> |
| 8 | <u>CAD Formulas of RF Circuit Components and Antennas by Fuzzy Electromagnetics (1.5 h.)</u> Prof. Yung L. CHOW (04/04) | 13 | 42 | <i>Lec.</i> |
| 9 | <u>Conditions for Fields and Media (Lecture Series 3) (3 h.)</u> Prof. Ismo V. Lindell (04/06) | 9 | 46 | <i>Lec. Series</i> |
| 10 | <u>Progress on Microwave Theory and Technology (1.5 h.)</u> Prof. De Ming XU (04/09) at Shanghai | 12 | 53 | <i>Lec.</i> |
| 11 | <u>Electromagnetic Field Solutions (Lecture Series 5) (2 h.)</u> Prof. Ismo V. Lindell (04/11) | 11 | 40 | <i>Lec. Series</i> |
| 12 | <u>Singularities and Complex Sources (Lecture Series 6) (3 h.)</u> Prof. Ismo V. Lindell (04/13) | 9 | 35 | <i>Lec. Series</i> |

| | | | | |
|----|--|-------------|--------------|------------------------------|
| 13 | <u>Plane Waves (Lecture Series 7) (3 h.)</u> <i>Prof. Isao V. Lindell (04/16)</i> | 11 | 36 | <i>Lec. Series</i> |
| 14 | <u>Source Equivalence & Huygens' Principle</u> <u>(Lecture Series 8) (3h.) Prof. Isao V. Lindell (04/18)</u> | 12 | 35 | <i>Lec. Series</i> |
| 15 | <u>Field Decompositions (Lecture Series 9) (2 h.)</u> <i>Prof. Isao V. Lindell (04/20)</i> | 10 | 29 | <i>Lec. Series</i> |
| 16 | <u>RF & Microwave Techniques in Wireless Commu-</u> <u>nication Systems (2.5 h.) Prof. Ke Wu (05/17)</u> | 16 | 64 | <i>Lec.</i> |
| 17 | <u>Wireless System Components (2.5 h.)</u> <i>Prof. Ke Wu (05/21)</i> | 14 | 61 | <i>Lec.</i> |
| 18 | <u>Modeling & Design of MMIC Control Circuits (1.5 h.)</u> <i>Senior Engineer Yong-Sheng DAI (06/22)</i> | 6 | 24 | <i>Lec.</i> |
| 19 | <u>Vector Finite Element & Domain Decomposition</u> <u>Hybrid Techniques (1h.) Prof. Jin-Ping XU (05/23)</u> | 14 | 62 | <i>Lec.</i> |
| 20 | <u>Finite Element Short-Open Calibration for Extracting</u> <u>Microwave network Parameters (1h.)</u> <i>Prof. Ru-Shun Chen (05/23)</i> | 14 | 62 | <i>Lec.</i> |
| 21 | <u>Integrated dielectric lens antenna with application to</u> <u>mmw communication and collision avoidance radar</u> <u>(1.5h.) Dr. Xi-Dong Wu (06/21)</u> | 5 | 20 | <i>Lec.</i> |
| 22 | <u>Applications of unique superconductor quantum</u> <u>phenomena in electronics (DL) (1h.)</u> <i>Prof. Theodore Van Duzer (09/25)</i> | 8 | 47 | <i>Distinguished Lecture</i> |
| 23 | <u>Research in superconductor electronics at UC</u> <u>Berkeley (1h.) Prof. Theodore Van Duzer (09/25)</u> | 8 | 47 | <i>Lec.</i> |
| 24 | <u>Cross Strait Tri-Regional Radio Science and Wireless</u> <u>Technology Conference, 2002 at Shanghai (10/29-30)</u> | 40 | 105 | <i>Conference</i> |
| 25 | <u>Photonic feeding coplanar antenna for microwave &</u> <u>millimeter wave applications (1.5 h.) Dr. Keren LI</u> <u>(11/01)</u> | 9 | 39 | <i>Lec.</i> |
| 26 | <u>Design of planar waveguide-slot array antennas</u> <u>(1.5 h.) Senior Engineer Mr. Lin JIN (11/14)</u> | 12 | 55 | <i>Lec.</i> |
| 27 | <u>Design of microstrip coupler with high directivity</u> <u>(1h) Senior Engineer Mr. Lin JIN (11/14)</u> | 12 | 55 | <i>Lec.</i> |
| 28 | <u>Interpolation & extrapolation for computational</u> <u>electromagnetics (1 h) Prof. Da-Gang Fang (11/21)</u> | 14 | 41 | <i>Lec.</i> |
| 29 | <u>FDTD applications to electromagnetic compatibility</u> <u>Problems (1 h) Prof. Bin Chen (11/21)</u> | 14 | 41 | <i>Lec.</i> |
| 30 | <u>Design of antenna radomes (1 h)</u> <i>Senior Engineer Qiang Zhang (12/12)</i> | | | <i>Lec.</i> |
| 31 | <u>Analytical design formulation of multi-conductor</u> <u>circuits (1 h) Senior Engineer Xu-Chao Lan (12/12)</u> | | | <i>Lec.</i> |
| 32 | <u>Recent progress on computational electromagnetics</u> <u>(1.5 h) Prof. Tie-Jun Cui (12/13)</u> | | | <i>Lec.</i> |
| 33 | <u>Next generation of mobile communication systems</u> <u>(1.5 h) Prof. Wei Hong (12/13)</u> | | | <i>Lec.</i> |
| | TOTALS | 362+ | 1470+ | |

<http://www.cie-china.org/isape2003>

First Announcement and Call for papers

ISAPE2003

The 6th International Symposium on Antennas, Propagation and EM Theory
August 17-21, 2003, Beijing, CHINA



General Chair

Zong Sha, China

General Co-Chairs

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Akira Ishihara, USA

Int. Adv. Committee

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Mingqiao Zhang, China

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Qingsheng Dong, China

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T. Bird, Australia

T.Takano, Japan

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Sponsored by:

Chinese Institute of Electronics (CIE)

Technically Co-sponsored by:

IEEE Antennas Propagation Society (AP-S)

IEEE Geoscience and Remote Sensing Society (GRSS)

The Institute of Electronics, Information and Communication Engineers, Japan (IEICE)

Co-Sponsored by:

China (CIE) Committee for URSI

IEEE Beijing Section

IEE Beijing Center

The International Symposium on Antennas, Propagation and EM Theory (ISAPE) is a series of international symposium sponsored by Chinese Institute of Electronics (CIE), which is held every three years in China. The purpose of ISAPE is to provide an international forum to exchange the recent progresses and new ideas in the broad area of antennas, propagation and EM theory, and to offer an opportunity to strengthen relations of scientists, engineers, and participants throughout the world. The 6th ISAPE (ISAPE 2003) will be held in Beijing, China, on August 17-21, 2003. You are invited to submit papers and to participate this symposium.

The working language in all documents and at the symposium is **English**.

Scope

Relevant topics of interest include, but not limited to, the following:

- | | |
|------------------------------------|---|
| A1. Wire & slot antennas | P1. Scattering and RCS |
| A2. Microstrip & printed antennas | P2. Inverse scattering and imaging |
| A3. Aperture antennas and feeds | P3. Tropospheric propagation |
| A4. Array antennas | P4. MW & MMW propagation |
| A5. Phased array antennas | P5. HF propagation |
| A6. Signal processing antennas | P6. Propagation in wireless & mobile communications |
| A7. Wireless & mobile antennas | P7. Tunnel propagation |
| A8. EM probes & applicators | P8. Random media & rough surfaces |
| A9. FSS, polarizer & radome | P9. Ionospheric sounding |
| A10. Antenna measurement | P10. Remote sensing |
| E1. Methodology of EM theory | E6. Transient EM fields |
| E2. Computational electromagnetics | E7. Non-linear electromagnetics |
| E3. MW structures & devices | E8. Geo-electromagnetics |
| E4. EM compatibility | E9. Bio-electromagnetics |
| E5. EM fields in complex media | E10. Electromagnetics education |

Paper Submission

The working language of this symposium is English. One original copy and two duplicate copies of not more than 4 A4 size page paper with laser printer are requested. A bundled CD-ROM will be published with the hard copy, so the submission of paper with electronic format is a must. A statement is requested to confirm that if the paper is accepted, one of the authors will attend the symposium to present it.

Paper Format:

The title of paper should be centered in capital letters; the author's name/completed organizational affiliation information/Email address should be two lines below the title. The text should be started three lines below and be typed in two columns and double space between paragraphs.

Contact:

For further information and administration:

Please visit our Web Site at:

<http://www.cie-china.org/isape2003>

Or contact:

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For Paper Submission:

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Address in Chinese:

龚中麟 教授

ISAPE2003 程序委员会

北京大学电子学系

邮政编码: 100871

Important Dates

Reception of paper submission: March 31, 2003

Notification of acceptance: May 20, 2003

Pre-registration: June 20, 2003

For more details and updates of ISAPE2003, please visit the web at:

[HTTP://WWW.CIE-CHINA.ORG/ISAPE2003](http://www.cie-china.org/isape2003)

For more conferences sponsored by Chinese Institute of Electronics, please visit our website at:

[HTTP://WWW.CIE-CHINA.ORG](http://www.cie-china.org)



PIERS 2004

Progress in Electromagnetics Research Symposium

August 23 – 27, 2004

Nanjing, CHINA

FIRST CALL FOR PAPERS

The Progress In Electromagnetics Research Symposium (PIERS 2004) will be held on August 23-27, 2004 in Nanjing, Jiangsu, CHINA.

SYMPOSIUM ORGANIZATION

PIERS Chairman: J.A. Kong, *Massachusetts Institute of Technology, USA*

PIERS 2004 General Chairman: W.X. Zhang, *Southeast University, CHINA*

PIERS 2004 Technical Program Committee Chairman: W. Hong, *Southeast University, CHINA*

PIERS 2004 Organizing Committee Chairman: J.P. Xu, *Southeast University, CHINA*

PIERS 2004 International Advisory Committee: *Australia:* M.E. Bialkowski; *Canada:* Ke Wu; *China:* W. X. Zhang; *Finland:* I.V. Lindell; *France:* A. Prieur; *Germany:* R.H. Janson; *Hong Kong (China SAR):* L. Tsang; *Japan:* H. Ogura; *Korea:* J.W. Ra; *Russia:* S.A. Tretyakov; *Singapore:* L.W. Li; *Spain:* M. Salazar-Palma; *Ukraine:* A.I. Nosich; *USA:* W.C. Chew, T.K. Sarkar.

PIERS provides an international forum for reporting progress and recent advances in all aspects of the electromagnetics. Spectra range from statics to RF, microwave, photonics, and beyond. Topics of interest include, but are not restricted to the following areas:

- | | |
|---|---|
| 1. Theoretical electromagnetics | 17. SAR interferometry and polarimetric radar sensing |
| 2. Time-domain electromagnetics | 18. Radar for atmosphere and ionosphere |
| 3. Ultra-wideband, short-pulse electromagnetics | 19. Remote sensing of the earth, and atmosphere |
| 4. Non-linear electromagnetics | 20. Electromagnetic precursors of earthquakes |
| 5. Computational electromagnetics | 21. Propagation at radio communications |
| 6. Fast iteration and large scale computation | 22. Antenna theory and measurements |
| 7. Parallel computation | 23. Microstrip and printed antennas |
| 8. Asymptotic methods and high frequency techniques | 24. Waveguide structures and discontinuities |
| 9. Wavelet and Neural network techniques | 25. Microwave and millimeter wave circuits |
| 10. Scattering and diffraction | 26. Advances in MMIC |
| 11. Rough surface scattering | 27. Microwave and optical wave interactions |
| 12. Inverse scattering | 28. Photonics, nonlinear optics and devices |
| 13. Wave scattering and imaging in random media | 29. Superconductive electronics |
| 14. Electromagnetic interaction with natural media | 30. Electromagnetic compatibility |
| 15. Composite, complex and fractal media | 31. Medical applications and biological effects |
| 16. Signal processing in remote sensing | 32. Others |

ONE-PAGE ABSTRACT MUST BE RECEIVED BY JAN 15, 2004

Authors are invited to submit a one-page abstract of no less than 250 words in English. *No full-length paper is required.* The abstract should explain clearly the content and relevance of the proposed contribution, *require no copyright transfer agreement, and contain no acknowledgements.* Attaching another one-page letter explaining the following information: (1) Topic in which the paper should be placed or the name of the session organizer, (2) Title of the paper, (3) Name of the author(s), (4) Affiliation(s), (5) Complete mailing address, (6) Telephone/fax number, and (7) E-mail address of each author. Please indicate the corresponding author and the presenting author.

Abstract and explanation letter for PIERS 2004 should be submitted via e-mail by attachments of two separated files. Authors are urged to use *.doc as the file format (do not using other formats). Please send all abstracts (do not send via facsimile or post-mail) to the PIERS 2004 Secretariat (see overleaf). The abstract deadline is Jan. 15, 2004. The acceptance notification will be delivered on Feb. 28, 2004.

Abstract guidelines:

Abstracts are typed on one single-spaced A4 (or 8.5 x 11 inch) white paper. Use 12-point Times New Roman or an equivalent Serif font, set all margins to 25mm (1 inch), set paragraph indentation to 3.5mm (0.14 inch). Type title in bold, centered at the top. Below title, centered name of the author(s) with affiliation and complete post-mailing address and E-mail address.

**ACCEPTANCE NOTIFICATION BY FEBRUARY 28, 2004
PRESENTING AUTHOR MUST PRE-REGISTER BY MAY 20, 2004
ADVANCE PROGRAM WILL BE SENT BY JUNE 10, 2004**

Titles of accepted papers will be published in the PIERs 2004 website <http://www.ccem.edu.cn/piers2k4/> upon completion of review. Acceptance notification and pre-registration material will be mailed to corresponding author of the accepted paper by February 28, 2004. Each presenting author is required to pre-register by May 20, 2004.

Travel, lodging, registration and local information will be mailed with the Advance Program by June 10, 2004.

Registration fee (non-refundable) for participants:

| Participant | Before and on May 20, 2004 | After May 20, 2004 |
|-------------|----------------------------|--------------------|
| Regular * | US\$315 | US\$360 |
| Student | US\$160 | US\$200 |

* The fee includes the Symposium program and proceedings, attendance at all technical sessions, refreshments, buffet lunches and opening reception, but excluding workshop and/or tutorial. Each presenting author is limited to presenting no more than three papers per registration.

Abstract(s) & Enquires should be directed to:

Technical Program Enquires

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ABOUT NANJING

Nanjing is located at 32°03' north latitude and 118°47' east longitude, to the south of Beijing over 1,100 km and to the west of Shanghai over 300 km. It has a history of over 2,400 years as a city, and had been the capital in China for ten dynasties. Recently, Nanjing is the capital of Jiangsu Province, a center of electronic industries in China. It is a famous green city covered by trees and surrounded by a longest city-wall in the world with 33.4 km circumference. Many scenic spots and historical relics are distributed inside and outside the city-wall within one-hour bus distance, which attract several million tourists each year. In the late August, the average temperature is about 25°C (77°F), and the relative humidity is around 80%. It is always clear to start a nice season of gold autumn. Transportation is comprehensive, safe and inexpensive in Nanjing. The domestic airlines extend to 45 cities of China including Beijing, Shanghai, Hong Kong and Macao; the international airlines linked Nagoya, Seoul, Kuala Lumpur, and Bangkok, etc. The railway and highway also connect Nanjing with Shanghai and the rest part of mainland of China. Taxis are easily flagged from taxi stands or along the streets. The social visit program at Nanjing and satellite cities are designed for accompanies. Besides, several routines of different Post-Symposium Tour in China will be recommended and arranged.

IEEE Singapore Section

MTT/AP Joint Chapter 2002 Annual Report

LWLi@nus.edu.sg, <http://www.ece.nus.edu.sg/lwli>

Chairman: Prof. Li Le-Wei, Dept of Electrical & Computer Engineering
National University of Singapore, Kent Ridge, Singapore 119260

Members of MTT/AP Chapter Committee in 2002:

| | |
|--------------------|--------------------|
| Chairman | Prof. Li Le-Wei |
| Deputy Chairman | Dr Ooi Bab Leong |
| Honorary Secretary | Dr Ma Jianguo |
| Honorary Treasurer | Dr Lin Fujiang |
| Committee Member | Prof. Yeo Tat Soon |
| | Dr Yin Wen-Yan |

Major Events

Technical talks

- [1] 6th Feb., 2002 (Wednesday), A Unified Framework of Functional Methods for EM Problems, Professor Wen-Xun Zhang, (Visiting Professor of National University of Singapore, Kent Ridge, Singapore) Southeast University, Nanjing, China
- [2] 29th August 2002 (Thursday), A New Dimension for RF System Integration & Miniaturization, Professor Ke-Li Wu, The Chinese University of Hong Kong, Hong Kong SAR
- [3] 30th August 2002 (Friday), An Explicit Knowledge-Embedded Space Mapping Scheme for Optimization Design of LTCC RF Passive Circuits, Professor Ke-Li Wu, The Chinese University of Hong Kong, Hong Kong SAR
- [4] 27th September 2002 (Friday), Signaling in the Rain, Professor Yeo Tat Soon, National University of Singapore, Singapore
- [5] 27th September 2002 (Friday), Electromagnetic Compatibility and You, Professor Yeo Tat Soon, National University of Singapore, Singapore
- [6] 27th September 2002 (Friday), Precision Radar Target Location, Professor Yeo Tat Soon, National University of Singapore, Singapore
- [7] 27th September 2002 (Friday), Antennas for Mobile Communications, Professor Kazuhiro Hirasawa, University of Tsukuba, Japan
- [8] 29th (Tue)-30th (Wed) October 2002, T-matrix Approach and Multiple Scattering of Waves, Professor Vijay K. Varadan, Pennsylvania State University, USA
- [9] 13 November 2002 (Wednesday), Noise Characterization and Modeling of MOSFETs for RF IC Applications, Chih-Hung Chen, Assistant Professor McMaster University, Hamilton, Canada

Conference:

Progress In Electromagnetics Research Symposium (PIERS' 2003), Pan Pacific Hotel, Singapore, January 7-10, 2003

There are about 200 delegates to attend this conference. More results will be reported later.

Meetings:

MTT/AP Joint Chapter has organized 3 administration meetings.

Activities Report for the Joint Chapter Microwave Theory and Techniques and Antennas and Propagation Societies

Region 10 Chapter Chairs Meeting
at Mitsubishi Electric Corporation,
5-1-1 Ofuna Kamakura-city, Kanagawa 247-8501 Japan

25 November 2002

The MTT/AP Chapter is a new chapter in the Queensland Section of the IEEE. The chapter is based in the capital city of Queensland, Brisbane, and draws its membership mainly from industry and universities in Brisbane, and from larger regional cities around the state.

RF and microwave engineers in Brisbane are employed in a number of small businesses serving niche markets, the universities, or in a handful of larger companies as follows:

| | |
|----------------|---|
| Codan – | HF radio systems, terrestrial microwave communication links, Satcom SSPAs and frequency converters |
| Filtronic – | a subsidiary of it's UK parent company, Filtronic's focus is on servicing overseas OEMs in the cellular basestation industry with products based on its RF and microwave filters. |
| Micreo - | develops products for the ultra-high data rate, long-haul, fiber optic communications market |
| Voxson – | cellular handset manufacturer. |
| Boeing – | avionics supplier and contractor to the Australian military. |
| EM Solutions - | specialist in microwave module and antenna design, manufacturer of terrestrial microwave communication links |

Key Queensland research and teaching centres for microwaves and RF:

- University of Queensland
- Griffith University
- Queensland University of Technology
- CSIRO
- University of Southern Queensland (Toowoomba)
- James Cook University (Townsville)

Formation

Following several months of enthusiastic effort by Professor Marek Bialkowski, the formation of the chapter was approved by the IEEE Headquarters on the 16th of April 2002.

Activities

The chapter has had a very good start in terms of its activities, which have been very well supported by local industry and universities. The recent chapter activities concerned technical seminars as well as visits to manufacturing and testing facilities of local microwave companies, which generously hosted these events. The details of the meetings are as follows:

April 18, 2002, "Smart Antennas in Future Mobile Communications", Prof. Tapan Sarkar (AP-S Distinguished Lecturer), Department of Electrical and Computer Engineering, Syracuse University, NY, USA (given at the University of Queensland).

July 22, 2002, “RF Filter Design Techniques”, Prof. Keith Kikkert, James Cook University of North Queensland, Townsville, QLD, Australia (given at the University of Queensland)

July 24, 2002, “Introduction to the Products and Technology of Mireo Limited”, Mr. Tim Shaw, Managing Director of Mireo Ltd, Murrarie, Qld, Australia (given at Mireo Ltd).

This meeting was well attended by 24 engineers and postgraduate students, who took advantage of the chance to tour the well appointed Mireo cleanroom facility

Also on the same evening, the **inaguaral meeting** of the Chapter took place, attended by 13 Society members. The following Chapter Officers were elected:

| | |
|------------|--|
| Chair | – Prof. M.E. Bialkowski (University of Queensland), |
| Vice-Chair | – Dr Ashley Robinson (Mireo Ltd), |
| Treasurer | – Dr Tee Tang (Queensland University of Technology), |
| Secretary | – Mr. Richard Hodgson |

September 17, 2002, “Designing in the Microwave Frequency for Application in Arctic to Tropical Environments”, Mr Saindhav Tamhane, Codan Group Engineering Manager, Codan Ltd, 532 Seventeen Mile Rocks Rd, Sinnamon Park, Qld, Australia (given at Codan Ltd).

This presentation was the best attended so far, with at least 43 engineers attending. The presentation was followed by a visit to the production facilities of Codan.

September 25, 2002, “3D EM Simulation of High Frequency Problems by Finite Integration Technique”, Dr. Frank Demming-Janssen, Computer Simulation Technology GmbH, Branch Office North Germany/Benelux, Kiebitzheide 123, D-48329 Havixbeck, Germany (given at the University of Queensland). The seminar was followed by demonstration of the software package CST Microwave Studio.

This presentation was held in conjunction with a lecture to a group of University of Queensland Masters of Microwave Engineering students. The meeting was a good opportunity for members of the local microwave industry to meet with the students and to advertise the activities of the IEEE MTT/AP Chapter.

Website

Details concerning the MTT/AP Queensland Chapter Officers, Past and Future Meetings and Other Useful Links can be found at the following website:

<http://www.itee.uq.edu.au/~zagr/>

MTT/AP Queensland Chapter Chair: Prof. Marek E Bialkowski
School of Information Technology and Electrical Engineering
The University of Queensland
St. Lucia, Queensland 4072, Australia
Tel. (+61-7) 3365 3563
Fax (+61-7) 3365 4999
E-mail: Bialkowski@ieee.org

Attendees

**Prof. Zhang****Prof. Eom****Dr. Tong****Dr. Furuham****Prof. Uslenghi****Prof. Li****Prof. Nakano****Dr. Makino****Prof. Ito****Dr. Miyashita**

Presentations



Discussions



Banquet



From upper left: Prof. Ito (Japan Chapter), Dr. Furuhamma (ISAP Standing Committee), Prof. Uslenghi (AP-S AdCom), Prof. Nakano (AP-S AdCom), Prof. Zhang (Nanjing Chapter), Prof. Eom (Korea Chapter), and Dr. Tong (Hong Kong Chapter).

From lower left: Dr. Miyashita (Japan Chapter), Prof. Li (Singapore Chapter), and Dr. Makino (Japan Chapter)