



THE INSTITUTE OF
ELECTRICAL
AND
ELECTRONICS
ENGINEERS, INC.
THAILAND
SECTION

Report of
IEEE Thailand Section

for
IEEE Region 10 Committee Meeting
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PART A – SECTION SUMMARY

A - 1 Executive Summary

IEEE-Thailand Section was established in November 1977. At present the section has four student branches, 5 chapters covering 8 societies and a total membership of about 600. The main objective of the section is to promote technology transfer. An executive committee meeting is hold every month to plan new activities and receive information from the section officers. During 2001, the section together with its chapters had organized 31 technical meetings. More details can be founded at www.ewh.ieee.org/r10/thailand

PART B – ORGANIZATIONAL ACTIVITIES

B - 1 Membership Development

	<u>HM</u>	<u>LF</u>	<u>F</u>	<u>LS</u>	<u>SM</u>	<u>PS</u>	<u>LM</u>	<u>M</u>	<u>PM</u>	<u>LA</u>	<u>A</u>	<u>ST</u>	<u>GRANDTOTAL</u>
1999	-	-	-	4	13	-	3	200	7	-	45	130	421
2000	-	-	-	4	14	-	3	251	8	-	93	335	700
2001	-	-	-	5	11	-	4	237	3	-	80	237	577

B - 2 Professional and Continuing Education Activities

In 2001, the section itself organized 2 continuing education (training) courses, 11 seminars and 1 industrial visit as follows:

Continuing Education (Training) Programs :

No.	Date	Topic :	Attendance
1	Jun. 27-29 2001	Maintenance for Electrical Equipments Plant and Industry	67
2	Aug. 29-31 2001	Relay Protection for Industrial Power System*	91

* supported by R10 education activity committee.

Seminars :

No.	Date	Title :	Speaker	Attendance
1	Jun. 28 2001	Power Pool : Case Studies in US and Australia	Mr. Mark Lauby	137
2	March 6,2001	Wireless Systems-on-a-Chip Design	Prof. Robert Brodersen	45
3	July19, 2001	Power Pool : How it effects the consumer	Mr. Kraisi Karnasuta	100
4	Aug.10,2001	Power Quality a Worldwide Problem	Mr. Terry Chandler	72
5	Aug.24,2001	Case Study on Harmonics Problems	ABB Staff	102
6	Oct. 29,2001	Safe and Sound Electrical Installations with Effective Grounding and Power Quality Solutions*	Mr. Burton Brooks	226
7	Oct. 29,2001	Understanding numerical relays and their use	Prof. M. S. Sachdev	74
8	Nov.19,2001	Demand Response Programs : Configuring Load as a Resource for competitive Electricity market, Views of the future US electricity industry	Grayson Heffner	70
9	Nov.19,2001	Technology Roadmap Challenges for Deep Submicron CMOS	Cor Claeys	-
10	Nov.21,2001	Metalorganic Chemical Vapor Deposition (MOCVD) for Opetelectronic and Electron Device Applications	Kei May Lau	-
11	Nov.29,2001	Business Directions of Thai Telecom and Power utilities	Dr. Pisit Leeahtam	60

* supported by R10 education activity committee.

Industrial Visit:

No.	Date	Title :	Speaker	Attendance
1	Aug.10-13 2001	Study Trip to Bangsapan Substation, Sahaviriya Steel Company and Ratchaprapha Dam	Mr. Kraisi Karnasuta	35

B - 3 Recognized Educational Programs
Kasetsart University has updated its education programs.

B - 4 Students Activities

The student branch Chulalongkorn University has organized an electronic camp supported by R10 education activity committee. Its objective is to provide a 4 days camp during October 15-18, 2001 for training 50 high school students in the following areas:

- 1) Introduction to Electronics
- 2) Fundamental electronics knowledge and applications
- 3) Basic electronic circuit design and computer simulation
- 4) Visiting research laboratories
- 5) Hand on construction of electronic projects

B - 5 E - mail and Newsletter Activities, Home Page

Three newsletters have been issued . Section homepage is at
www.ewh.ieee.org/r10/thailand

B-6 Awards -None-

B - 7 Chapter Activities

Circuits and Systems:

No.	Date	Seminar title:	Speaker	Attendance
1	12 Jan. 2001	Low Voltage Switched Current Techniques for Blue tooth's Channel Filters	Dr. John Huges Mahanakorn UT.	80
2	1 March 2001	Low Power Low Energy Design	Saeid Nooshabadi UNSW, Australia	70
3	24 April 2001	ISCAS 2001 Preview	Researcher Staff Mahanakorn UT.	25
4	8 May 2001	ISCAS 2003 Organizing Committee Meeting	Organizing Committee CAS Chapter	30
5	17 May 2001	Analog and Digital Signal Processing for Wireless Communication Systems	Dr. Svante Signell Ericsson Radio, Sweden	40
6	3 July 2001	Frequency Response Masking Technique Synthesis of Digital Filters	Prof. Y. C. Lim NUS, Singapore	30

Power Engineering:

No.	Date	Seminar title:	Speaker	Attendance
1	18 May 2001	Electrical Transient in power System	Allan Greenwood USA.	70
2	17Aug. 2001	Recent Development in Calculation of Electric and Magnetic Fields Related to HV engineering	Dr. Takuma Tada Kyoto University, JAPAN	40
3	21Sep. 2001	Estimation of Lighting Performance of Transmission Line	Dr. Channarong Banmongkol Chulalongkorn University	67
4	29 Oct.2001	Understanding Numerical Relays and Their Use	Mohindar S. Sachdev CIGRE	74

C o m p u t e r :

No.	Date	Seminar title:	Speaker	Attendance
1	May 13,2001	Future of Information Technology	Prasart Sribhadung	200
2	22 May 2001	Asian Family Adjustment to Information Technology	Dr. Srisakdi Charmonman Assumption University	134
3	8 June 2001	IT System in Thailand	Dr. Chulit Meesajjee Assumption University	134
4	22 June 2001	Database for Management Level	Dr. Srisakdi Charmonman Assumption University	172
5	15 July 2001	IT vision in Thailand	Dr. Srisakdi Charmonman Assumption University	86
6	26 Aug.2001	Internet User in Thailand	Dr. Ketchayong Skowratananont Assumption University	100
7	2 Sept. 2001	Electronic Communication : An Evolving Tool in Teaching	Dr. Srisakdi Charmonman Assumption University	68
8	3 Sept. 2001	Management Information System	Prasart Sribhadung Assumption University	121

Communication:

No.	Date	Seminar title:	Speaker	Attendance
1	2 July 2002	Challenges in Management of IP-based Networks	Dr. Salih Aidarous NEC America Inc.	35
2	14 Dec. 2002	1) A/D Converter design	Mr. Kijada Chaisanguanmitt SIIT, Thammasat University	79
		2) Channel Estimation for WCDMA	Mr. Apirath Limmanee SIIT, Thammasat University	79
		3) WCDMA Pilot Signal Synchronization	Mr. Boonsarn Pitakdumrongkija SIIT, Thammasat University	79
		4) The Structure and Functionality of WCDMA Physical Channel	Mr. Akapol Hiranekapap Kasetsart University	79
		5) Modified Trellis Coded Modulation and Precoding for ISI Channels in Wireless Communications	Dr. Keattisak Sripimanwat National Electronic and Computer Technology Center	79
		6) Design Approach for Baseband Processing in WCDMA	Mr. Sirichai Sae-wong Kasetsart University	79
		7) 3G protocol stack: MAC layer	Mr. Supachoak Chinnapong Prince of Songkhla University	79
		8) 3G protocol stack: LAC layer	Mr. Supachoak Chinnapong Prince of Songkhla University	79
		9) Higher-level 3G system software	Mr. Tisadee Preeyawongsagul Prince of Songkhla University	79
		10) Smart Antenna for Pico Cell Base Station	Mr. Phaisan Ngamjanyaporn King Mongkut's Institute of Technology Ladkrabang	79
		11) RF power amplifier	Mr. Narit Youngthanisara King Mongkut's Institute of Technology Ladkrabang	79
		12) Low noise amplifier	Mr. Danupoom Pulsab King Mongkut's Institute of Technology Ladkrabang	79
		13) Bandpass filters for WCDMA	Mr. Somporn Seewattanapon King Mongkut's Institute of Technology Ladkrabang	79

Joint MTT/AP/ED:

No.	Date	Seminar title:	Speaker	Attendance
1	Nov.19, 2001	Technology Roadmap Challenges for Deep Submicron CMOS	Cor Claeys	-
2	Nov.21, 2001	Metalorganic Chemical Vapor Deposition (MOCVD) for Optoelectronic and Electron Device Applications	Kei May Lau	-

P A R T C - G O A L S A N D P L A N S**C - 1 G o a l s**

- 5 technical meeting and seminars
- 2 new student branches at Mahanakorn and Kasetsart University
- 3 - 4 Newsletters
- 1 Industrial visit
- 2 Continuing education (training) Programs.
- support 3 international conference, i.e. M2VIP 2002, IC EMC 2002 and ITC-CSCC 2002
- host IEEE R10 annual general meeting during April 5 – 6, 2002 at Hyatt Erawan Hotel, Bangkok

P A R T D - O T H E R S**D - 1 R e l a t i o n s h i p w i t h N a t i o n a l S o c i e t i e s**

The Section has joined with the Engineering Institute of Thailand (EIT) under His Majesty the King' Patronage to organize seminars and conferences.

D - 2 S p e c i a l E v e n t s

A project for establishing electricity museum at Thailand National Science Museum is in progress, although slowly.

D - 3 P r o b l e m s t o b e A n t i c i p a t e d - N o n e -