



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

**Report of  
IEEE Thailand Section**

**for**

**IEEE Region 10 Committee Meeting  
April 4 – 5, 2003  
Penang, Malaysia**

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Section Chairman 2003 – 2004**

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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 9 societies and a total membership of about 530. The main objective of the 6 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 2002, the section together with its chapters had organized 34 technical meetings. Some details can be founded at [www.ewh.ieee.org/r10/thailand](http://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
2002	-	-	-	5	8	-	5	265	10	-	68	169	530

<b>Society</b>	2001	2002
Computer	245	255
Communications	151	182
Circuit and Systems	176	127
Engineering Management	77	88
Signal Processing	63	69
Control Systems	52	60
Power Engineering	57	59
Industry Applications	55	55
Industrial Electronics	50	53
Microwave Theory and Techniques	37	42
Aerospace and Electronic Systems	20	41
Instrumentation and Measurement	41	40
Antennas and Propagation	41	40
Power Electronics	33	40
Information Theory	37	36
Consumer Electronics	34	36
Vehicular Technology	34	35
Robotics and Automation	29	34
Solid-State Circuits	24	31
Electron Devices	24	31
Lasers and Electro-Optics	22	31
Electromagnetic Compatibility	20	25
Education	20	25

Society	2001	2002
Engineering in Medicine and Biology	23	24
System, Man and Cybernetics	18	24
Magnetics	17	22
Broadcast Technology	17	20
Geoscience and Remote Sensing	20	18
Professional Communication	16	16
Dielectrics and Electrical Insulation	16	16
Components, Hybrids and Manufacturing Technology	16	16
Reliability	12	15
Ultrasonics, Ferroelectrics and Frequency Control	13	13
Nuclear and Plasma Sciences	8	7
Oceanic Engineering	6	5
Social Implications of Technology	2	2

## B-2 Professional and Continuing Education Activities

In 2002, the section organized 3 continuing education (training) courses, 11 seminars and 1 industrial visit as follows:

### Continuing Education (Training) Programs :

No.	Date	Topic :
1	May 20 – 24m 2002	Maintenance for Electrical Equipments and Relay Protection for Industrial Power System
2	June 26 – 28, 2002	Maintenance of Electrical Equipment for Industrial Power System
3	August 28 – 30, 2002	Relay Protection for Industrial Power System*

\* supported by R10 education activity committee.

### Seminars :

No.	Date	Title :
1	January 3, 2002	Smart Antenna
2	April 4, 2002	Sillicon-On-Insulator Mosfet's for analog applications
3	April 26, 2002	Advances in Coding for the Fading Channel
4	June 4, 2002	Power Quality Management and Reactive Power Compensation
5	July 10, 2002	Case Studies on Harmonics Problems and Solutions in Thailand & Asia Pacific
6	July 30, 2002	Partial Discharge, Capacitance and tan delta Measurements
7	August 9, 2002	50KW – 9MW Power Plant using Oil-Palm Fruits with no esterification
8	August 23, 2002	Innovative Compact Substation Design & Substation Control and Protection Technology
9	October 4, 2002	Flexible AC Transmission System (FACTS)*
10	October 22, 2002	Voltage Sag Mitigation
11	November 15, 2002	Silver Jubilee Symposium*

\* supported by R10 education activity committee.

### Industrial Visit:

No.	Date	Title :
1	May 4 – 6, 2002	Study Trip to Sirindhorn Dam

### B-3 Recognized Educational Programs

- no report -

### B-4 Students Activities

The student branch at Chulalongkorn University has organized an electronic camp supported by R10 education activity committee. Its objective is to provide a 4 days camp during October 14-17, 2002 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](http://www.ewh.ieee.org/r10/thailand)

### B-6 Awards -None-

### B-7 Chapter Activities

#### Circuits and Systems:

No.	Date	Seminar title:
1	January 11, 2002	Integrated Channel Filters for Bluetooth Radios: Continuous-time and Sampled-data Approaches"
2	March 22, 2002	Signal Processing: Where will we go?
3	August 8, 2002	Nanotechnology for Electronic and Electrical Engineers

#### Power Engineering:

No.	Date	Seminar title:
1	July 10, 2002	Case Studies on Harmonics Problems and Solutions in Thailand & Asia Pacific
2	August 23, 2002	Innovative Compact Substation Design & Substation Control and dProtection Trend of Technology
3	October 4, 2002	Nanotechnology for Electronic and Electrical Engineers

#### Computer:

No.	Date	Seminar title:
1	March 5, 2002	Workshop on e-ASEAN Implementation
2	June 24, 2002	Round Table Discussion on "E-Government"
3	August 16, 2002	E-Government Challenge : The Case of Thailand
4	September 16, 2002	System Education in Australia

#### MTT/AP/EDS

No.	Date	Seminar title:
1	January 3, 2002	Smart Antennas
2	January 3, 2002	Genetic Algorithm in Electromagnetic Field Analysis and Design

#### Communication:

No.	Date	Seminar title:
1	November 22, 2002	Is there a Future for Telecommunication*

\* supported by R10 education activity committee.