



**IEEE CALCUTTA SECTION  
KOLKATA, INDIA**

**ANNUAL SECTION REPORT  
R-10 MEETING, MALAYSIA  
2003**

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## **PART – A**

### **SECTION SUMMARY**

#### **A.1 Executive Summary**

The IEEE Calcutta Section, being founded in 1988-89, is one of the active sections among the 10 sections in India. The usual activities for the year 2002 had been spread through Lecture meets with national & international speakers from industry/ R&D sector/ academia, distinguished lecture/ exposition program, social meet, formation of new student branches, cosponsoring conference programs organized by local institutes and participation in 2002 R-10 meeting held in Bangkok. A prestigious activity had been organizing the 28<sup>th</sup> Annual Convention & Exhibition (ACE) – 2002 of IEEE India Council at Kolkata in Dec. '02'.

The IEEE Calcutta Section has at present three ambitious chapters viz., the Power Engineering (PE) chapter, the Computer Engineering (CE) chapter & the Industry Application (IA) chapter. The chairman of the PE chapter attended the R-10 PE chapter Chair's meeting at Yokohoma, Japan, Oct., 2002, and brought back useful ideas for the Chapter's subsequent growth.

The Section has established in Oct. '02 a collaborative memorandum of understanding with the largest national society of Engineers, the Institution of Engineers (India).

## A.2 Financial Report

Opening Balance on 01 Jan. 2002 : **Rs. 6,82,731 = Eqv. US \$ 14,076.93**  
(Conversion 1US\$=Rs.48.50)

### Expenditure 2002

Meetings/Conference	Rs. 54,390
Social Events	Rs. 33,565
Student Activities	Rs. 9,658
Chapter Activities	Rs. 22,078
Advance paid realizable in 2003	Rs. 47,500
Educational Activities (DLP)	Rs. 4,950
Support to India Council	Rs. 12,000
IEEE ACE '02	Rs. 54,844
Loan Recoverable	Rs. 35,000
Misc.	Rs. 12,794

Total Expenditure = **Rs. 2,86,779** = **Eqv. US \$ 5,912.96**

### Income 2002

HQ Sec./Chap. Rebate	Rs. 3,21,970
Social Event Regn. Fee	Rs. 4,860
Outstanding Chap. (PE) Award	Rs. 47,970
Embd. Softw. Seminar Regn. Fee	Rs. 7,500
Grant from R-10	Rs. 16,576
HQ grant for student br.	Rs. 3,342
Recovery of Advance	Rs. 65,000
Misc. Income	Rs. 2,500

Total Income = **Rs. 4,69,718** = **Eqv. US \$ 9,684.90**

**Net Profit = Rs.1,82,939 = \$ 3,771.94**

Closing Balance on 31 Dec. 2002 = **Rs. 8,65,670** = **Eqv. US \$ 17,848.87**

## **PART – B**

### **ORGANIZATIONAL ACTIVITIES**

#### **B.1 Membership Development Programs**

The main development activity of the Section had been the induction of new members, both at the higher grade and student membership levels. The Section encourages new student membership, in particular, by providing some percentage of their membership dues as subsidy from the Section. The Section experienced a negative growth in membership during 2002. This may be due to the recent enhanced rate of membership dues.

- Efforts in Membership Development

The Section has taken steps for new membership growth through its various programs. In and around Kolkata, a number of engineering colleges had been established. The Section is targeting new members from their faculty and new student members from these students.

- Evidence of Retention of Members

As mentioned there has been no substantial induction of new members during 2002. However, the average existing membership strength of the section had been retained.

- GOLD Activity

The GOLD committee had been formed by the Section. This Committee had meetings to evolve certain activity programs. This GOLD Committee is yet to gather momentum.

## **B.2 Professional & Continuing Education Activities**

The following programs had been organized:

<b>Year 2002 Date</b>	<b>Speaker</b>	<b>Topic</b>
03.01.02	Prof. Kaushik Roy Dept. of EE, Purdue University, USA	Leakage Current in Deep Submicron ICs – Future Trends and Possible Solutions.
09.01.02	Prof. Sukumar Ghosh Dept. of CS, University of Iowa, USA	How to enhance the performance of Pipelined Processor
05.03.02	Dr. Sugata Mitra Centre for Research in Cognitive Systems, NIIT, New Delhi	Children and the Internet: Experiments with a minimally invasive pedagogy
30.04.02	Prof. S. Srinivasan Dept. EE, IIT, Madras	Hardware Designs for Video Compression Algorithms
31.07.02	Dr. Prasanta Ghosh Dept. E&CE, Syracuse University, USA	Dielectric and Semiconductor Film for High Speed Devices
13.12.02	Col. T. K. Das Indian Army Corps of Signals	Voice over Internet Protocol
30.12.02	Dr. G. Sarkar University of Alaska, USA	Spin-on Dielectrics for Future Nano and Sub-Micron Scale Devices

## **B.3 Recognised Educational Programs (Section Sponsored)**

<b>Date</b>	<b>Program</b>	<b>Organiser</b>
Feb. 22-24, 2002	International Seminar on ‘Decentralized Energy: Option and Management (Challenges before the Developing Countries)	Institution of Engineers (India) West Bengal State Centre
May 13-24, 2002	Workshop on Mobile Computing (M-Comp 2002)	Netaji Nagar Day College Computer Centre
Dec. 20-21, 2002	28 <sup>th</sup> Annual Convention & Exhibition (ACE) 2002 of IEEE India Council	Science City, Kolkata
Dec. 28-31, 2002	4 <sup>th</sup> International Workshop on Distributed Computing (IWDC 2002)	Dept. of CSE, University of Calcutta

#### **B.4 Student Activities**

The Section has three existing student branches:

- i. Jadavpur University branch
- ii. BIT, Mesra branch
- iii. IIT, Gauhati branch

New branches formed during 2002 are:

- i. Regional Engineering College, Durgapur
- ii. BE College (Deemed University), Howrah

New branch pending HQ approval:

- i. NERIST, Arunachal Pradesh

It must be mentioned that due to steep rise in Student membership dues, retention of Student membership & hence formation of new student branches are facing difficulty.

#### **B.5 E-mail / Newsletter / Home Page**

The Section along with its PE chapter has initiated its Web – page activity. Due to certain unavoidable reasons, Sections Newsletter (Monitor) could not be brought out during 2002.

#### **B.6 Awards**

The Section along with its PE chapter recommended the name of Prof Sujay Basu for the outstanding engineer award 2002; the IEEE – PES granted the award to him.

#### **B.7 Chapter Activities**

The activities of the chapter of the Section are summarized below:

##### **A. PE Chapter:**

- Received the High Performance Chapter Grant awarded by the IEEE – PES for the chapter's activity during 2002.
- Organised 2 committee meetings & 4 lecture meetings during 2002.
- Organised a half-day seminar in Oct. 2002 under the DLP scheme of IEEE – PES.

B. Computer Chapter:

- Organised 10 lecture meetings.
- Organised a 3-day workshop jointly with the Computer Sc. Engg. Dept. of Jadavpur University.

C. IA Chapter:

- Chairman of the Chapter has been elected as an IEEE – IAS Distinguished Lecturer during 2002-03.

**PART – C**

**GOALS & PLANS**

**C.1 Goals**

- Formation of a Communication Chapter
- Formation of a few Student branches
- Organising a one-day Workshop during Nov. – Dec. '03 on Mobile Communication with possible international collaboration
- Activation of GOLD scheme

**C.2 Detailed Implementation Plans**

- Improved communication among members via e-mail
- Improved interaction of Students at various local colleges / institutes with the Section & introduction of encouraging student activity awards
- Through SSVR Support requested from the R-10 Committee of 2003
- Induction of new GOLD members

## **PART – D**

### **OTHERS**

#### **D.1 Relationship with National Societies**

The Section has established relationship with two national societies

- IETE (India)
- Institution of Engineers (India)

#### **D.2 Special Events**

Nil

#### **D.3 Problems to be Anticipated**

Due to hike in the membership fees by the HQ, Section anticipates

- Fall in membership induction
- Discouraging Student membership growth