

**IEEE Uttar Pradesh Section
INDIA**

Address

Department of Industrial & Management Engineering
Indian Institute of Technology
KANPUR - 208 016
INDIA
Email: jayanta@iitk.ac.in

Reporting Officer
Dr. Jayanta Chatterjee, Chairperson
IEEE Region 10 Committee Meeting to be held in April, 2002
in Bangkok, Thailand

PART A

SECTION SUMMARY

A.1 Executive Summary

The IEEE Uttar Prdaesh Section was formed on May 11, 1992. Prior to that, this has been a sub-section under the Delhi Section since December 28, 1970.

The names of the office bearers of the section for the year 2002 were approved in Annual General Body Meetings held on January 12, 2002. A broad range of technical activities were organized in the year 2001 by this section. This included technical meetings, workshops, conferences and symposia. Appropriate financial support was provided to organize sponsored activities and the occasions were utilized to promote IEEE membership amongst the participants. We have also been trying to put in special efforts to increase IEEE membership in the States of Uttar Pradesh and Uttaranchal which are more than 1000 km in length and about 400 km in width having a population of about 120 million. The results have been encouraging.

The Section has a IEEE Neural Networks Research Interest Group (R.I.G.) and two chapters - (a) Joint Chapter of Power Engineering and Industrial Applications Societies and (b) Joint Chapter of Signal Processing and Computer Engineering Societies. Several technical meetings were also organized under these during the year 2001.

A.2 Financial Report (2001)

Receipts

- Balance as on Jan 1, 2001	: Rs. 321597.98
- Financial Assistance received from IEEE	: Rs. 226907.00
- Interest received	: Rs. 13115.25
- Dividend received	: Rs. 3300.00
- STDR	: Rs. 173746.00
- Other receipt	: Rs. 10006.00

TOTAL : Rs. 748672.23

Total Expenditure during 2001 : Rs. 337472.50

Balance as on Dec 31, 2001 : Rs. 411200.23

A.3 Section Committee Officers

Attached is the lists of Office Bearers and Chairpersons/Members of various committees for the year 2002 including the Society Chapters and Research Group.

PART B

ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Programs

The membership of our section as on 28th Feb 2001 was 824. As on 28th Feb, 2002 it rose to 1085 including 550 student members. Our membership has gone up by nearly 32% but in the meetings of our Executive Committee, members have expressed the view that we should make efforts in expanding our membership further. There are significant upside potential at Noida, Roorkee and Allahabad/Lucknow. We are pursuing efforts to do this to the extent possible. In the course of our various meetings, seminars and other activities, we always emphasize the benefits of IEEE membership and motivate people to join IEEE. Our Section spreads over a vast area. A good number of our members from the industry are in the isolated areas. It is a Herculean task to get them involved in our activities. During the last year we have been able to increase our activities at different places like Lucknow, Varanasi, Roorkee and Gorakhpur within the State of U.P. Particular credit goes to Gorakhpur unit.

B.2 Professional and Continuing Education Activities

A number of lectures and workshops were organized both by distinguished visiting speakers as well as by local lecturers. Out of these, some of particular interest are:-

1. Analysis of Traffic Mechanism in ATM and Cellular Mobile Networks
- Prof. Noufissa Mikou, University of Bourgogne, France.
2. Analysis and Avoidance of Cross-talk in on-chip Buses
- Prof. Sunil Khatri, University of Colorado at Boulder, USA
3. Establishment of an Educational Grid using Advanced Web Technologies
- Prof. KR Srivathsan, Director, Indian Inst. of Information Technology, Bangalore
4. Predictive Direct Control Methods for Induction Motors
- Prof. P. Mutschter, Inst. for Stromrichtertechnik & Antriebsregelung, Germany
5. Location of FACTS Devices in Competitive Power Market
- Dr. S.N. Singh, Asian Institute of Technology, Thailand
6. Power System Reliability and Distributed Power Generation Systems
- Prof. D.P. Kothari, Indian Institute of Technology, New Delhi, India
7. Available Transfer Capability Assessment and Transmission Congestion Management in a Restructured Electricity Market
- Prof. SC Srivastava, Indian Institute of Technology, Kanpur
8. Computer Analysis of DC and High Freq. Properties of Microwave and mm-wave IMPAT Diodes
- Dr. Nilratan Mazumdar, Centre for Adv. Studies in Radio Physics, Univ. of Calcutta
9. Bidirectional Data Flow Analysis: Past Beliefs & Recent Advances
- Prof. Uday Khedkar, Pune University, Pune, India
10. Technology Development for Indian Language at IIT Kanpur
- Dr. Rajat Moona, Indian Indian Institute of Technology, Kanpur, India

In all, about 33 technical meetings were organized during 2001.

B.3 Recognized Educational Programs

No special programme was organized in this category.

B.4 Students Activities

There are five student branches in the Section. They are located at I.I.T. Kanpur, Institute of Technology, B.H.U., Varanasi, MMM Engineering College, Gorakhpur, KNIT, Sultanpur and University of Roorkee, Roorkee. Among them the branch at Gorakhpur is the largest with about 200 student members and is also the most active one.

Five students from Roorkee(now upgraded to IIT Roorkee) have participated in the Region-10 Student Paper Contest.

B.5 Awards

No awards were organized in the section.

B.6 Conference Activities

The IEEE U.P. Section supported the following Conference/Workshop/Symposium in 2001.

- "Tech.Srijan" - a Technical Event organized by IEEE Students Branch, M.M.M. Engineering College, Gorakhpur, March 10-12,2001.

B.7 Chapter Activities

The section has a IEEE Neural Networks Research Interest Group (R.I.G.). It has also formed two chapters. These are - (a) Joint Chapter of Power Engineering and Industrial Applications Societies and (b) Joint Chapter of Signal Processing and Computer Engineering Societies.

These chapters and the RIG have been functioning reasonably well and have organized several technical meetings during 2001 totaling to 14.

B.8 E-mail and Newsletter Activities, Home Page

The email facilities are widely available to members located at U.P. Section. With the rapidly increasing facilities of Internet in India, more email activities are expected in the future. Our section has its own homepage on the World Wide Web. The URL for this is -

<http://www.iitk.ernet.in/pub2/ee/ieee/>

All the sections belonging to India Council support one monthly IEEE India News Bulletin once every year.

PART C

GOALS AND PLANS

C.1 Goals

As in previous years, our basic goal remains one of providing an interesting and professionally exciting set of technical activities for our members so that we can help in promoting their professional growth. We will continue to hold as many good quality technical meetings as possible to achieve this goal and would like them to be held in a distributed manner in the geographical section represented by us, i.e. the U.P. Region. In the U.P. Region, wherever we have a sufficient concentration of members or where we feel that IEEE membership can be promoted, we have been organizing and would like to continue to organize technical activities (or help in organizing them). This has helped and will help further in our goal of promoting IEEE membership within the engineering professionals and students in this area. Special initiatives planned for the year 2002:

<u>Target period</u>	<u>Venue</u>	<u>Event</u>
October, 2002	Noida, U.P.	1 day interactive workshop on “Emerging Trends in Power Electronics & Industry Applications”
December, 2002	Lucknow	One Day Workshop on “Impact of Information & Communication Technology Convergence on Transportation Industries”
February, 2003	Kanpur	International Student Paper Contest on “Managing Turbulence and New Career paradigms”

C.2 Detail Implementation Plans

In order to achieve the above, we plan to do the following -

1. We will continue to promote other regular technical activities in the U.P. Region by providing joint sponsorship, support and publicity to conference and symposia organized in and around this region. We continue to encourage our members to promote such activities and assist them in organizing these as far as possible. We intend to use our communication channels (email, WWW web page, newsletter etc.) to publicize these activities so that our members can gain maximum advantage from them. We also generally request the organizers of these activities to charge a reduced registration fee for IEEE members so that we can then use this to promote the benefits of IEEE membership.
2. We plan to encourage student membership by organizing activities focused on students' needs. We plan to organize useful panel discussions as has been done in the past. We also plan to organize site visits to local industrial organizations, power stations and laboratories for them. We are considering starting some lectures and group discussions, which can help in providing career guidance and counseling to students.
4. We wish to promote better industry academia ties in our region and the first two special initiatives are planned accordingly.

C.3 Budget

We anticipate that our budget for the current year (2002) will be approximately Rs. 4,50,000/- (approximately US\$ 9000).

This would include financing of major events such as the three special conferences, workshops and symposia as well as the cost of procuring videos, travel expenses, meeting expenses and honorariums. We seek special support from Region 10 towards traveling expense assistance to students from other countries in the region that will qualify for the "Regional Student Paper Contest" planned for February 2003 at Kanpur, U.P.

PART D

OTHERS

D.1 Relationship with National Societies

The IEEE Uttar Pradesh Section (and its preceding sub-section) has traditionally enjoyed a strong relationship to the two premier national societies of India, i.e.

- (a) Institution of Engineers (India), IE(I)
- (b) Institute of Electronics and Telecommunication Engineers (IETE)

Both these bodies have several local centers in various cities of Uttar Pradesh including one at Kanpur. A large number of our members are also members of these organizations.

Our section has been cooperating with these bodies in the past and will continue to do so in the future. In a number of cases, these bodies have assisted us in organizing seminars, symposiums and conferences by participating with our section as joint sponsors of some of these activities. We look forward to having such fruitful collaboration with them in 2002 also and in the coming years.

D.2 Special Events

At the moment, our section plans three special events cited earlier(Part C).

D.3 Problems to be anticipated

Our section has been operating smoothly and we do not anticipate any special problems in our operations in 2002. We intend hope to provide our members with a good support framework for local technical activities such as tutorials, seminars, symposia and conferences. We would also like to expand our electronic communication capabilities to allow better contacts and networking with our members.

IEEE UP SECTION LIST OF COMMITTEE MEMBERS FOR THE YEAR 2002

I. IEEE OFFICE BEARERS

- | | | |
|-----|---|--|
| 1. | Chairperson | Dr. Jayanta Chatterjee,, IIT Kanpur |
| 2. | Vice Chairpersons | Dr. S.R. Doradla, IIT Kanpur(BP Singh) |
| 3. | Secretary | Dr. A.K. Chaturvedi, IIT Kanpur |
| 4. | Treasurer | Dr. S.P. Das, IIT Kanpur |
| 3. | Joint Secretary | Dr. YN Singh, IIT Kanpur |
| 4. | Convenor of Technical & Professional Activities | Dr. Sanjay Bose, IIT Kanpur |
| 5. | Convenor of Awards and Fellow Nomination | Dr. R. Arora, IIT Kanpur |
| 6. | Convenor Students Activities Committee | Dr. BP Singh, MMMEC Gorakhpur |
| 7. | Convenor Membership Development Committee | Dr. S.N. Sinha, I.I.T. Roorkee |
| 8. | Convenor, Publication & Section History | Dr. G.K. Dubey, IIT Kanpur |
| 9. | Convenor, Continuing Education | Dr. R.K. Ghosh, IIT Kanpur |
| 10. | Convenor, Electronic. Comm. Promotion Committee | Dr. YN Singh, IIT Kanpur |

II. EXECUTIVE COMMITTEE

1. Dr. V. Sinha, IIT Kanpur
2. Dr. R. Arora, IIT Kanpur
3. Dr. KE Hole, IIT Kanpur
4. Dr. R. Sharan, IIT Kanpur
5. Dr. GK Dubey, IIT Kanpur
6. Dr. BP Singh, Gorakhpur
7. Dr. SN Mahendra, IT-BHU Varanasi
8. Dr. N. Malaviya, IET Lucknow
9. Dr. MM Hasan, Lucknow
10. Dr. RP Agarwal, IIT Roorkee

III. SOCIETY CHAPTERS – LIST OF OFFICE BEARERS

A) Power Engg. & Industry Application Societies Joint Chapter

Dr. G.K. Dubey, IIT Kanpur	Chairman
Dr. S.P. Das, IIT Kanpur	Secretary

B) Signal Processing and Comptuer Engg. Societies Joint Chapter

Dr. Ajai Jain, IIT Kanpur	Chairman
Dr. S. Umesh, IIT Kanpur	Secretary

C) Neural Networks Research Interest Group (NN-RIG)

Dr. RK Ghosh, IIT Kanpur	Chairman
--------------------------	----------