

IEEE Hyderabad Section Report for 2002

R10 Award Committee will select the R10 Outstanding Section Award, based on the Section Report Submitted. Therefore, it is necessary to have a common form to facilitate the evaluation and hence the following format is suggested.

PART A - SECTION SUMMARY

A.1 Executive Summary

ADMINISTRATIVE MEETINGS: The SEC along with the members of Joint Chapter of PES/IAS and Computer Society Chapter met Twelve times to plan and monitor the technical and administrative activities for the year.

TECHNICAL/PROFESSIONAL MEETINGS: Totally 12 technical and professional programmes (lectures/seminars/tutorials/meetings) were organized by Hyderabad Section, which include 2 tutorials by CS chapter and 1 tutorial by PES/IAS Jt.Chapter

SECTIONS CONGRESS 2002 (SC2002): The SC2002 was held at Washington DC during 18-21 October 2002 and was attended by Section Chair. A report on the Congress was circulated in the fourth issue of Synapse in December 2002.

PES CHAIRMAN'S CONGRESS: The Chairman, Jt. Chapter of PES/IAS has represented the section at the 3 day deliberations of the PES Chairman's Congress at Yakohoma, Japan in October 2002.

12TH FARADAY MEMORIAL LECTURE 2002: Prof. Kene Matsuda has given his invited talk on High Reliability Power Systems Design

A.2 Financial Report

The Section Accounts are approved at the Annual General Body meeting held on 19th Jan 2003 and the accounts are also submitted to IEEE head-quarters in February.

The financial condition of the Section is sound. Detailed report will be submitted on request.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Programs

- Effort in Membership Development
- Evidence of retention of members
- GOLD Activity

As of October 31 2002, we have the following on the rolls:

Category	2000	2001	2002
Life Fellows	Nil	Nil	Nil
Fellows	3	4	4
Life Senior Members	2	3	3
Life Members	1	3	2
Senior Members	47	42	39
Permanent Members	36	3	6
Members	561	425	460
Affiliate/Associate Members	713	393	364
Student Members	690	953	976
Total	2034	1821	1854

B.2 Professional and Continuing Education Activities

- Continuing Educational activities including conferences, technical event, training courses should be summarized and reported.

B.3 Recognized Educational Programs

- Number and growth of REP in the Section

B.4 Students Activities

- Active Student Branch activity including student paper contest, recruitment of student members.

IEEE R10 Student Congress was held in Singapore from July 16-20, 2002. Section had approved the name of Mr. Mohammed Irfan of MJC. The theme of the congress was Building the Bridge.

STUDENT PAPER CONTEST—2002

The student paper contest this year received 22 submissions all in the undergraduate (UG) category. Altogether six judges from various academic and R & D organizations reviewed the papers.

This year the papers were divided for the purpose of judging into two categories:

1. The first constituted the papers in the general area of pertaining to Computer Society and Communications Society.
2. The second category constituted papers belonging to the Power Engineering Society and Industrial Applications Society.

This year it was a rather difficult task for the judges as the quality of papers was better than that of last year with several papers showing good independent work. It is reflected in the fact that two-second prizes are being awarded. Other students were sent certificates for participation in the contest.

This years winners are:

- First Prize: Mr. Cheeredi Chandra Kanth, for Class Based Querying for Link Sharing and Resource Management

- Second Prize PES: Mr. Vinod Kumar Yedidi and Nagaraju Dola
Implementation of FACTS Devices in a Transient Stability Analysis Programme
- Second Prize CS: Mr. Y. Vamsi, T. Jaladheer and Mr. Mr. Vikram Chand for “Imposter Modelling and Effects of Neural Network Structure on Performance of Speaker Verification”

STUDENT BRANCH ACTIVITIES: Student Activities Chairman: Dr. Atul Negi.

IEEE Hyderabad Section recognizes the need to promote and support the younger generation in its quest for entering a career in EE and allied disciplines. The Section extends its support and assistance to the student community, in the following forms:

Visits by members: The Section encourages visits by its members to Student Branches.

Student Paper Contest: Every year, since 1990, the Hyderabad Section conducts a Student Paper Contest to bring out the hidden potential of our Student Members.

Presently, the Section has student branches in the following locations:

1. Sagi Ramakrishnam Raju Engineering College
2. RVR & JC College of Engineering,
3. Chowdavaram Koneru Lakshmaiah
4. College of Engineering
5. Narsaropeta Engineering College
6. Bapatla College of Engineering
7. SVH College of Engineering
8. Rajiv Gandhi Memorial College
9. N.B.K.R Institute of Science and Technology
10. Gandhi Institute of Technology and Management
11. Regional Engineering College
12. Kakatiya Institute of Science and Technology
13. Sreenivasa Institute of Technology and Management Studies
14. Chaitanya Bharati Institute of Technology

15. Deccan College of Engineering
16. Jawaharlal Nehru Technological University
17. Osmania University, College of Engineering
18. University of Hyderabad (UoH), Dept. of CIS
19. VNR Vignana Jyoti Institute of Engineering and Technology,
20. Shadhan College of Engineering
21. Srinidhi Institute of Science and Technology
22. Ghatkesar Vasavi College of Engineering
23. Muffakhamjah College of Technology , Banjara Hills
24. Muffakhamjah College of Technology , Begumpet
25. MVSR College of Engineering
26. Vasavi College of Engineering

A) New IEEE Student Branches Status:

Shadan College of Engineering and Technology, Peerancheru
Himayatsagar Rd Hyderabad

Sreenivasa Institute of Technology and Mangement Studies,
Timmasamudaram, Chittor AP

Sreenidhi Institute of Science and Technology, Yamanapet Ghatkesar. RR
District Hyderabad.

B) Inactive Student Branches with Low Membership 1996-2001.
Following colleges were recommended for dissolution except Osmania
College of Engineering:

G Pulla Reddy Engrg College

Jawaharlal Nehru Tech. Univ.– Kakinada

KSRM College of Engrg – Cuddapah

SRI Venkateswara University

C) MJCET, HYD IEEE STUDENT BRANCH INAUGURATION : Jan 31,
2002. The Principal, MJCET Dr. Syed Wahabuddin presided over the

function. He welcomed the gathering and advised the students to avail the opportunities provided by IEEE Hyderabad Section and advance their technical activities. Prof. D. V. R. Vithal addressed the Student Chapter as Guest Speaker. He advised the student members to be more involved and participate in research and technical activities like publications to be made in major conferences, student paper contest and similar contests, conducting seminars, following up distinguished lecture programs, tutorials etc. The Student Branch should develop a web site taking cue from Mumbai Student Branch Site which is considered as one of the best in R-10 he felt. Dr K. Srinivas, Secretary and Mr. K. Viswanath Vice Chair also attended. **Dr. Gopal Pingali of IBM presented a technical talk on “Pervasive Computing Techniques”.**

- D) The IEEE Hyderabad student branches of the Hyderabad Section are now linked by a Yahoo group called as “ieeedeliberation”.
- E) TWIN CITY IEEE Student Branches conducted a one-day technical event programme under aegis of IEEE Hyderabad Section on October 6, 2002. The event was named “COGNIZANCE”. The event was marked by three technical talks:
- 1) Dr. T. H. Chaudhary, “On latest developments in telecommunication industry”
 - 2) Maj. Gen (Retd) Dr. R. K. Bagga, “On Career Guidance”
 - 3) Dr. Moharir, “On complexity Theory”

This was followed by technical quiz. The event was part sponsored by IEEE Hyderabad Section and was held at MJIT Campus, Banjara Hills

- F) The lexicon describes Engineering as the *application of scientific knowledge*. Understanding the importance of scientific applications and the necessity of proper guidance in the right direction, the IEEE Student Branch of Vasavi College of Engineering under the guidance of Dr.V.P.Kodali, Fellow IEEE (Branch Mentor), had organized a seminar on undergraduate projects on Nov 7th 2002 at 3:00 PM.

The seminar was moderated by Dr.P.Ramakrishna Rao (the principal of Vasavi college of engineering) and the seminar started with a motivating talk from Dr.V.P.Kodali.

Speakers:

- 1) Dr.Atul Negi, (University of Hyderabad) Student Activities Chairman (SAC) IEEE HYDERABAD SECTION. Dr.Atul Negi gave a very clear picture of the wide range of opportunities, awards and scholarships available to the students in the electro-technology fields giving the students a very good reason to start their projects early.

- 2) Dr.Koduri Srinivas, (NRSA) Secretary, IEEE HYDERABAD SECTION. Dr.Koduri Srinivas from the NRSA presented the scope and importance of undergraduate projects, in the industry.
- 3) Mr.Murali Mohan Kakarla (Portal Player) and Mr.Ravi Prasad Bulusu (Portal Player): Mr.Ravi Prasad and Mr.Murali Mohan from the Portal Player motivated the students and emphasized about the importance of student projects in applying for jobs or for higher studies.

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

- Number of Newsletter issues, email Newsletters, list of Section, Chapters and Student Branches Web Page
Section news letter is called Synapse. There were 4 Issues.

Section URL is: <http://ewh.ieee.org/r10/hyderabad/>

The students branches and others have links from this.

There is a Yahoo!Groups for e-mail sharing of information

(ieeedeliberation@yahoogroups.com <ieeedeliberation@yahoogroups.com>)

We also make use of majordomo to share information.

hyderabad-section@majordomo.ieee.org hyderabad-section@majordomo.ieee.org

B.6 Awards

- ❖ Mr. Kondapi Vishwanath has bagged the R-10 best volunteer award for the year 2001. The award has been conferred on him at R 10 meet at Bangkok in April 2002.
- ❖ Sri. Chaparala Satish has bagged the prestigious IEEE Educational Activities Board Meritorious Achievement Award in Continuing Education for the year 2002.
- ❖ Sri. Chaparala Satish has bagged the prestigious 2002 Electrical Safety Excellence Award given by IEEE Industry Applications Society Petroleum and Chemical Industry Committee (PCIC) at PCIC 2002 technical conference at New Orleans on 23 Sept 2002.
- ❖ This year also the section has nominated its best volunteer award and the results are awaited.

B.7 Chapter Activities

IAS/PES SOCIETY CHAPTER

Chairman: Sri R. Kannan, SMIEEE
Secretary: Sri T.R. Rajagopalan, MIEEE

SLNO	DATE	TITTLE OF PAPER	SPEAKER	ATTENDENCE
1	22/09/2002	High Reliability Power Systems Design	Prof. Kene Matsuda	90 (M60, O30)
2	12/03/2002	Voltage Stability Analysis of Power Systems	Prof. Shekhar Kelapure	19 (M9, O10)
3	4/05/2002	Hotline Maintanance New Trends in Maintaining EHT Lines & Substations	Sri KSN Murthy	35 (M10, O25)
4	29/11/2002	Electric Power Systems Operation New Challenges	Dr. C. Radha Krishna	38 (M9, O29)

Tutorial Title

1	17/06/2002	Digital Protective Relaying and, Communications	Dr Murthy VVSyalla	27 (M9, S3, O15)
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COMPUTER SOCIETY CHAPTER

Chairman: Sri Shatrunjay Rawat, SMIEEE
Vice-Chair: Sri Manoj Kumar, SMIEEE

SLNO	DATE	TITTLE OF PAPER	SPEAKER	ATTENDENCE
1	02/01/2002	JPEG 2000	Dr. KR Rao	44 (M29, O15)
2	23/07/2002	Lessons From World Energy Slow Down	Prof. Maneesh K Sharma	95 (M35, O60)
3	20/09/2002	Challenges in Rural Connectivity For India	Prof. Ashok Jhunjanwala	68 (M30, O38)
4	27/11/2002	Digital Signatures: Authentication for E-Security	KN Gupta	40 (M25, O15)

Tutorial Title			
1	06/01/2002	CMDA for Wireless Communications	42 (M4, S21, O17) Dr. Rodger E Ziemer
2	28-29/11/2002	Routing Protocols For Next Generation Computers	23 (M2, S4, O17) Mr. Shatrunjay Rawat, Dr Atul Negi Mr. Sharad Menawat

All these tutorials and lectures were thought provoking and were very positively received by the participants.

PART C - GOALS AND PLANS

C.1 Goals

As listed by IEEE President, many sections face the same problems:

- *On the issue of industry relations, we have not been very successful.*
- *...it is apparent that the leadership simply rotates among a few select individuals.*

RAY FINDLAY, IEEE President

<http://www.spectrum.ieee.org/INST/dec02/prescol.html>

How do we address these issues ? If we can share the best practices, we do not need to reinvent the wheel. For example, at Hyderabad section,

- We are proposing a Section Students Congress (we are constrained by the funds).
- We are also proposing to reaching young faculty and improve Quality in Technical Education.
- We are enlisting the support of experienced/accomplished veterans who are interested in helping.
- We are interested in hosting a design competition on lines of www.computer.org/csisc to promote the design skills and work with the industry. For example, the idea of virtual museum is proposed.
- We want to seek the active help of the industry.
- Make recent books/standards available to members.

Some of these ideas may have been tried or can be tried.

C.2 Detailed Implementation Plans

- Section Students Congress is planned for March 15th and 16th.
- We are also proposing to reaching young faculty – We will do a 2-day program in May
- Improving Quality in Technical Education: we would like to organize a national event in September/October.
- We are enlisting the support of experienced/accomplished veterans who are interested in helping – we already had 2 meetings and we plan to hold a meeting once every quarter

- We are interested in hosting a design competition on lines of www.computer.org/cside to promote the design skills and work with the industry. For example, the idea of virtual museum is proposed.
- We want to seek the active help of the industry – arrange meetings with them. We also would like to get annual lectures organized on the lines of Faraday Memorial Lecture.
- Reach out to students through several programs.

C.3 Budget

We get about US \$10,000/- in funds and we spend about the same. So, we need funds to try the new, novel programs. We anticipate funds for another US \$10000. The virtual museum proposal costs about \$75000/-

PART D - OTHERS

D.1 Relationship with National Societies

We support India Council news letter.

D.2 Special Events

AI conference is planned in Dec 2003.

D.3 Problems to be Anticipated