

MADRAS *Link*

NEWS LETTER OF MADRAS SECTION



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

CHAIN 6

LINK 1 & 2

CODE No. 100133

FEB & APR 1989

EDITORIAL

Dear Members,

With this issue we begin a New year of IEEE activities under the Chairmanship of Mr C R SASI, who has been associated with our Section for the past twelve years. Our immediate aim is to really strengthen the link between our members and the Head Quarters on one hand and our student members and their professional needs on the other hand.

We are proud of our achievements in the area of Student Branches and Student activities. It is now our aim to strengthen the interaction between Student members and our Members in various Industries, Government departments etc.

We would like to arrange programmes of high technical interest and of immediate application potential. Lectures from our fellow Engineers from different work environments and different disciplines, addressing the students on what is expected of them and what they can expect from their employers, will give the right insight on the current trends. The high overhead cost for lecture hall, programme materials, refreshments etc, are to be met in a cost-effective manner by soliciting help from Industries. In Programmes meant for practicing Engineers suitable sponsors must be identified so that our members get the benefit of such vital programmes at the lowest possible cost.

We also would like to interact effectively with various Industries to identify application oriented projects-particularly at the Post Graduate level. Our Senior Engineers in various industries can play a big role in moulding the careers of many young Engineers.

We intend to allot a column for members' letters. Members are requested to write to the Editor, sharing ideas for programmes, improvement in attendance, student project or any problem faced or solved or solution sought. Services rendered by IEEE in the fields of technical activities, publications and professional support are enormous. The exist-

ing conditions in our Country restrict our own services. However mutual cooperation among our members can compensate this to a large extent.

We also imagine that in the near future we will be receiving information on employment opportunities for publication in Link. With our circulation of almost 2000, our members in Industries can be assured of a very good response. We welcome your views on this subject.

Dr K PADMANABHAN
Editor

AWARDS

- 1) The Student Branch of Coimbatore Institute of Technology has won an International award, namely Vincent Bendix Award from IEEE (USA) for their Project Proposal entitled "Microprocessor Based Energy Measurement and Remote Data acquisition System Using Power lines". The Branch is awarded \$ 475/- and the award is for 1988-89.

Congratulations Dr Marimuthu, Branch Counselor, Mr S Lakshmanan, Project Guide and the Students involved A Rammanohar, A S Irshad Ahamed, O S M Syed Ahamed, R Senthilathiban and P Subramanian. Madras Section wishes you successful completion of the project.

- 2) The Student Branch at Thiagarajar College of Engineering, Madurai stands first among all Student Branches in Region 10 for membership growth during 1988. Congratulations Dr Ayyadurai Student Counselor, Hari Anand Student Chairman and all other members of the dynamic team.
- 3) Madras Section has won first place in India Council for Membership Growth during 1988. Congrats MDC team spurred by HK.

The list of winners are :

Among Sections—Madras I, Calcutta II,
Bombay III.

Among Sub-Sections—Kanpur I, Baroda II.

FROM CHAIRMAN'S DESK

I thank all the members of Madras Section for electing me as the Chairman for 1989. Assuming office as Chairman of Madras Section is undoubtedly the most significant event in the twentyfive years of my professional life. I have been very fortunate to have been associated with all my predecessors—each one of whom an expert in his field and with a distinct style of his own in concept, planning and execution of short term and long term objectives. I now find myself in line with such personalities of great eminence and I rededicate my thought, my time and my best efforts to keep up to the high quality of performance standards set by them and to stand up to the trust shown by the members of the Section.

Madras Section has grown fast in the past six years and is growing. We have a strong member base, an unusually large proportion of Student members and a willing team of volunteers. My prime concern during my term is to consolidate on the position of strength achieved over the past years. I strongly believe that improving member services and member satisfaction are the essentials for sustaining growth and ensuring stability. To foster a feeling of friendship and fellowship among members and to promote active participation in the programmes organised are the twin track to be followed to achieve the kind of services which inturn earn the desired member satisfaction.

We are facing a situation where incomes are low, inflation high and the dollar dear. But the growth rates of India Council and Madras Section are ahead of even more affluent countries. This clearly indicates that an awareness for IEEE as the best source of updated information in hitech areas is already prevalent. The Sections act as channels to ensure the individual members easy and quick access to the enormous potentials of IEEE at affordable costs.

Many of us, who wish to be members of more than one Institution, are handicapped by the high member fees involved. IEEE always encourages joining hands with local, National and Transnational bodies in organising various activities of common interest to our members. Such joint events are conducted ensuring adherence to the guidelines provided by IEEE Bylaws and Policies. It has been found that the attendance in such joint meetings is also better than the average. A good attendance encourages the eminent speakers, who in spite of their busy schedules manage to come and share their expertise or experience with us. With the above in mind Madras Section is cosponsoring many of its programmes with other like-minded bodies in our area.

The complete list of our SEC team is printed in this issue. Members are welcome to contact any one of us for any service needed. Suggestions from members for improved member services and programmes are invited.

Just as healthy Nations, healthy Institutions are also built only by creative, inventive and vital activities. I am eagerly looking forward to an eventful and active year in which the feeling of fellowship grows, member participation increases, member service improves and overall satisfaction results.

C. R. SASI
Chairman

Winners of student papers contests & Quiz:

1. GCE Salem—March 10

Winners:

Ist session—I prize — Gopal Vaman Kulkarni
REC Surathkal

Title: Microprocessor controlled infusion of myoneural blocking drugs.

IInd session—I prize — Perumal, Sudha Rani & others. GCT
Coimbatore.

Title: Computer Aided allotment of subscribers telephone numbers.

IIIrd session—Ist prize— Sridhar, AKCE,
Krishnan Koil.

Title: Computer Architecture.

Technical Quiz-Ist prize-Gopal Vaman Kulkarni
REC Surathkal

2. ACCET Karaikudi—March 18.

Winners:

Power electronics session-Ist Prize-B Saravanan
REC Trichy.

Computer Communication Session--

I prize—G Ramakrishnan PSNA.

II prize—S. Ram Raj, MEPCO SCHLENK

Congratulations all winners. We are looking forward to more and more such motivating activities.

IEEE STUDENTS BRANCH COUNSELORS

Madras Section - 1989

1. Dr P BALAKRISHNAN
IEEE Student Branch Counselor
A C College of Engineering & Technology
Karaikudi 623004
2. Dr K UDAYAKUMAR
IEEE Student Branch Counselor
Lecturer of HV Engg College of Engineering
Guindy Madras 600 025
3. Prof M C VAITHILINGAM
IEEE Student Branch Counselor
Prof of Elec & Instrumentation
Annamalai University
Annamalai Nagar 608 002
4. Dr P MARIMUTHU
IEEE Student Branch Counselor
Prof Dept of Elec & Electronics
Coimbatore Institute of Technology
Coimbatore 641 014
5. Dr K R PALANISAMY
IEEE Student Branch Counselor
Dept of Electronics & Commn
Govt College of Engineering
Salem 636 011
6. Dr N ARUMUGAM
IEEE Student Branch Counselor
Principal
Hindustan College of Engineering
Padur Chingelput 603 103
7. Dr M S NARASIMHAN
IEEE Student Branch Counselor
Professor CSD
Indian Institute of Technology
Madras 600 036
8. Miss MARJARI T THEODORE
IEEE Student Branch Counselor
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Karunya Institute of Technology
Siruvani Coimbatore 641 101
9. Dr S RENGANATHAN
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Chrompet Madras 600 044
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Mepco Schlenk Engg College
Sivakasi Amathur PO 626 006
12. Mr M SEGU YUSSUF
IEEE Student Branch Counselor
Electronics & Commn Engg Dept
Mohammed Sathak Engg College
Kilakarai 623 806
13. Dr V PRITHVIRAJ
IEEE Student Branch Counselor
Pondicherry Engineering College
Pondicherry 605 008
14. Dr G GURUSAMY
IEEE Student Branch Counselor
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PSG College of Technology
Coimbatore 641 004
15. Prof S SELVAN
IEEE Student Branch Counselor
PSNA College of Engg & Technology
Dindugal 624 010
16. Dr M J S RENGACHAR
IEEE Student Branch Counselor
Dept of Electronics and Commn
Regional Engineering College
Trichy 620 015
17. Prof T RANGARAJULU
IEEE Student Branch Counselor
Asst Professor
S K Crescent Engg College
Vandalur Madras 600 048
18. Mr R VENKATARAMAN
IEEE Student Branch Counselor
Prof E & CE Dept
Sri Venkateswara College of Engineering
Nazarathpet Madras 602 103
19. Dr M AYYADURAI
IEEE Student Branch Counselor
Professor
Thiagaraja College of Engg
Madurai 625 015
20. Mr PREM B KUMAR
IEEE Student Branch Counselor
VLB Janaki Ammal College of Engg & Technology
Kowaiipudur Coimbatore 641 042
21. Prof V BALASUNDARAM
IEEE Student Branch Counselor
Mookambigai College of Engineering
Kalayamavur Keeranur 622 502
22. Dr K V SUNDARESAN
IEEE Student Branch Counselor
Vinayaka Mission's Kripanandavariar
Engineering College
Peria Seeragapadi Sankari Main Road
Salem 636 001.

IEEE Madras Section Executive Committee 1989

NAME OCCUPATION ADDRESS (M NUMBER)	IEEE OFFICE HELD	PHONES OFFICE RESIDENCE
1. Mr C R Sasi (SM 7117429) Consultant 20 Second Cross Street Sastrinagar Madras 600 020	Chairman Madras Section Also Chairman Student Activities	419876
2. Dr N M Parthasarathy (SM 4440095) Industrialist Flat No 2 7th Floor Parsn Manere Gemini Madras 600 006	Vice - Chairman Madras Section	475306 860071 869617
3. Mr C S Ganesan (SM 1734094) Consultant ECE 'Pushpanjaly' 12 Rama Rao Road Mylapore Madras 600 004.	Vice - Chairman - Madras Section	849424 74106
4. Dr S Renganathan (SM 4113965) Prof. MIT Madras 3 Masthan Sherif Nagar Chromepet Madras 600 044	Secretary	402151 402614 402152 402160
5. Mr N Bagavathy (M 7488471) Development Manager TIDCO LLA Buildings 4th Floor Madras 600 002	Treasurer Also Chairman - Finance	868694 666828 862681
6. Mr H Kalyanasundaram (SM 6639124) Consultant 9 Abhiramapuram First Street Madras 600 018	Immediate Past Chairman Also Chairman-Inter Society Relations	459896 459896
7. Dr Jewan P Raina (M 6645837) Prof. IIT Madras 87 Lakeview Road IIT Madras 600 036	Chairman - Education	415665 (Ext. 250)
8. Dr M R Krishnamurthy (SM 5430392) Dean Res & Ext. Regional Engineering College Tiruchirapally 620 015	Chairman - Awards	842283 (Trichy) Ext. 4
9. Dr K Padmanabhan (SM 5666177) Prof. ACTECH 5A 4th Street Postal Colony Mambalam Madras 600 033	Chairman - Publications Also Editor - Link	414537

NAME OCCUPATION ADDRESS (M NUMBER)	IEEE OFFICE HELD	PHONES OFFICE RESIDENCE
10. Mr P Pandiarajan (M 8539331) ADE - TNEB 218 Housing Board Colony Tambaram Sanatorium Madras 600 047	Chairman - Membership	832803
11. Mr R Balasubramanian (M 8389173) SE (Elect) ONGC A - 4 Sasi Apartments 167 R K Mutt Road Madras 600 028	Chairman - Programmes	447236 839638
12. Mr A Ramamurthy (M 1838309) Engineer M N Dastur & Co Pvt Ltd 480 Anna Salai Nandanam Madras 600 035	Chairman - Fellowship	452202
13. Mr G Krishnaswamy (M 0064451) Senior Manager Best & Crompton Engg Ltd SIET Towers Madras 600 018	Vice-Chairman - Education	453167 442987
14. Mr T Sridharan (M 4741096) Sr Engr ECC Madras 9 Bangaru Naidu Colony Extn Virugambakkam Madras 600 092	Vice-Chairman - Programmes	432741 428101
15. Col T V Natarajan (M 0061531) Asian Inst. Informatics 1 First Cross Street R K Nagar Madras 600 028	Chairman - Publicity	839333
16. Dr V Sankaranarayanan (SM 7453004) Prof Computer Centre College of Engineering Guindy Madras 600 025	Chairman - Power Engineering Society Chapter	414312
17. Mr N K Nathan (M 4667309) President Esquire Cons. 15 5th Street Padmanabha Nagar Adyar Madras 600 020	Chairman - Engineering Manage- ment & Industry Application Societies Joint Chapter	458950 416789
18. <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Dr A Mathialagan VacanProfessor Madras Institute of Technology Chromepet Madras-600 044. Phone: 402151 </div>	Chairman - Computer Society Chapter	

NEWS AROUND THE STUDENT BRANCHES

It is heartening to find almost all the Student Branches active with plenty of programmes. An early exposure to IEEE and active participation in its events are healthy signs for the future of the Student Community.

1. Hindustan College of Engineering

Inauguration of activities for the year was held on Dec 22 at the College auditorium. Dr N Arumugam, College Principal who is also the Student Counselor welcomed the gathering and introduced the Chief Guest Mr H Kalyanasundaram, Section Chairman and Mr C R Sasi, the Chairman-elect. Mr H K spoke on the advantages of IEEE membership during and after the graduation. Mr Sasi highlighted the edge that an IEEE Student Member holds compared to a non-member and requested all members to make full use of the opportunity.

2. Madras Institute of Technology

a) Farewell Meeting for the year 1988 was conducted on Dec 31. Dr S Renganathan, Student Counselor welcomed the gathering and introduced the Speakers. Mr H K Section Chairman presided. Mr N J Narayanan, Marketing Manager of M/S Instrumentation Ltd, delivered the Guest lecture on "Job opportunities for Budding Engineers", Mr C R Sasi, Chairman-elect participated in the deliberations.

b) SPAC—On March 8, '89 a Student Professionals Awareness Programme was conducted. This half day Programme was well attended and featured talks by the following participants. The talks were followed by informal interaction and discussions with the visitors.

Dr S Sathikh, Director MIT, C R Sasi, H Kalyanasundaram, Dr N M Parthasarathy, Dr. A Mathialagan & Dr S Renganathan spoke on various aspects of Ethics, updated professional knowledge, standards, job creation, information explosion and transition from class room to real world environment. From the students Mr Ramesh, Ms K A Sabitha and Mr V Mathiyazhagan talked on job selection, communication needs and keys to job selection.

3. Annamalai University

Mr Radhamonie, Chief Operations Manager, Seshasayee Insulators Ltd, inaugurated the year's activities. In his inaugural address he stressed the need for greater involvement of students in technical activities. The Dean, Faculty of Engineering & Technology, Dr AN Andiappan presided over the function. The Student Chairman Mr Ayub Ali welcomed

the gathering. Branch Counselor Dr M C Vaithilingam talked on the reactivation of the Branch.

The first technical lecture followed immediately after the inauguration. Mr R V Achuthan, Manager Technical Projects, Seshasayee Insulators Ltd, gave a talk on H V Engineering, outlining the manufacture of Insulators and describing various test procedures. Mr Sanjay, Branch Secretary proposed the vote of thanks.

4. Govt College of Engg Salem

Under the expert guidance of Dr KR Palanisamy, Student Counselor, a Student Paper Contest Comcon '89 was organised on March 7 and 8. A total of 30 papers were presented in three Sessions. Session I on the topics AI, Computer Aided Control Systems, Medical Electronics and Super Conductivity; Session II, on fourth Generation Languages, Data Base Management, Digital Signal Processing, CAE and CAI; Session III on Advances in Micro Processor/Computer Architecture, Robotics, LAN and Super Computers.

5. PSNA College of Engineering & Technology

The Branch started its 1989 activities with a grand three session Paper Contest and one Session Quiz Contest during Feb 24 and 25. TEC-SYMP '89 invited a good number of participants from 12 Engineering Colleges. First Session was on Computer Graphics. Dr M Ayyadurai, Professor and Head, Department of Computer Science, also Student Branch Counselor, Thiagaraja College of Engineering, delivered a guest lecture on Modern Trends in Computer Graphics. The Second Session was on Biomedical Instrumentation. Prof A Kandasamy, Prof and Head, Department of Commn. PSG College of Technology was the Chief Guest and talked on Computer Applications in Medicine. Digital Processing was the Topic for Third Session. The Guest lecture was delivered by Mr R Rajagopal, SSO, REC TRICHY on Direction - of - arrival estimation in a passive sonar. The Quiz Contest was Conducted by Prof Selvan, Student Counselor of PSNA.

The Valedictory function was presided by the Principal of College Prof W P Vijayaraghavan. The Chief Guest was Prof V Mahalingam, Additional Director of Technical Education. The Symposium came to an end after Prize Distribution and vote of thanks.

6. AC College of Engineering & Technology

The Student Branch has shown a three fold growth in membership and has maintained a very high level of all round activities in the past two years. Under the guidance of the persistent Counselor Dr P Balakrishnan and dynamic team headed by the Chairman V Srinivasan and Secretary N Subramanian the Branch has organised a variety of programmes during the past three months.

a) An awareness Course on "Introduction to Computer World" was conducted for School Students in the area from Feb. 1 to Feb. 15, 1989. The classes were handled by student members. A 40 page notes also prepared by Student members, was supplied to all the participants. More than 125 school students benefited from this unique exercise of immense practical value for the student members also.

b) Another excellent idea by the Branch is the Spectrum Review Sessions. In this regular programme, the articles above undergraduate level are explained by one of the Branch members, after doing the necessary library work. Mr S Balaji presented the first session in January '89.

c) A lecture by Dr M Arumugam and Mr S K Narayanan on "Reliability Engineering," and Mr R Arun, Fourth semester Mechanical Student gave a series of lectures on TURBO PASCAL GRAPHICS in February.

d) A paper contest TECHNO CON '89 was organised on March 18. The inaugural session started with invocation, welcome address by Branch counselor Dr P Balakrishnan and Presidential Address by Principal of College Prof A N Thomas. The event was inaugurated by the Chief Guest Mr T V Krishnamoorthy, DGM, EDP section, BHEL, Trichy. The Chief guest also released the Souvenir, brought out to mark the occasion.

The Session I on Power Electronics was chaired by Mr Y Mahadeva Iyer, CECRI. The Keynote address was delivered by Dr B Ilango, Professor, Dept. of Electrical Engineering, Anna University. Session II on Computer Communications was chaired by R Ravi, CECRI and the Keynote address was by Dr A Mathialagan, Professor, Computer Centre, Madras Institute of Technology.

The Valedictory Session had Mr. C. R. SASI, Section Chairman as the Chief Guest who in his Valedictory Address emphasised the urgent need for development of communication and Organising skills for Engineers in the rapidly changing work environments today. He requested the Student Members to make full use of their early exposure to IEEE in developing their leadership qualities with

active participation in all its Programmes. Dr P Balakrishnan welcomed the gathering. Branch Chairman V Srinivasan presided. After prize distribution for the winners in each category the function ended with vote of thanks by the Secretary N Subramanian.

7. Thiagarajar College of Engineering :

The Branch under the experienced Counselor Dr M Ayyadurai conducted a two day All India Student Symposium during March 17 and 18. This event called Tele Tec has, over the past three years, become a popular Student meet in this part of the country, attracting more than 300 delegates from all over the country. Participation by eminent persons in the field of Electronics and Communication and the coverage by AIR and Doordarshan enhanced the awareness value of the Programme. The details of this programme will be published in a future issue of Link.

8. Coimbatore Institute of Technology

The Branch conducted a SPAC programme on March 10. Rear Admiral SS Venkateswaran, Advisor, PRICOL & ELTEX was the Chief Guest. The meeting was presided over by Prof M Guruswamy, Principal of the College. The Speakers were Prof T A Venkatachalam, Wing Cdr K Parthasarathy, Mr R Jayaprakash and Mr N A N Narayanan. The programme was followed by Dinner.

9. VLB Janaki Ammal College of Engineering and Technology

Although handicapped by the absence of Branch Counselor Mr Udayachandran who has left for Canada and the new Counselor Mr Prem B Kumar just taking over, the Branch organised an excellent Intra College Technical Symposium and Technical Quiz Competition on March 10.

IEEE Tops 300,000 Mark

IEEE has surpassed the 300,000 mark during Dec. 1988. IEEE with members in 130 countries is the world's Largest Technical Professional Organisation.

The 300,000th member of IEEE has been identified as Susan Rudy Sanicky of San Jose, California. IEEE has announced recognition of the first Member from each section, after crossing this landmark, as the 300,0001st Member. We are very happy that Dr M K Achuthan, an eminent Professor of IIT Madras is the 300,001st Member of IEEE from our Section.

Dr Russell C Drew, 1988 President mentioned that the growth of IEEE has paralleled the pervasiveness of electrotechnology which now undergirds the economics of many of the developed nations. We in India are aware how true it is in the case of developing nations also.

Best wishes

New Student Branch Counselors

1. **College of Engineering Guindy:** Dr. K. Udayakumar has taken over from Dr V Krishnamurthy who has gone out of India on a two year assignment.
2. **Mepco Schlenk Engineering College:** Dr S Krishnamurthy has taken charge from Dr B Viswanathan, who has moved to VLBJA College of Engineering & Technology.
3. **VLBJ Ammal College of Engineering & Technology:** Mr Prem B Kumar has taken over from Mr Udayachandran who has gone to Canada for higher studies.
4. **Sri Venkateswara College of Engineering, Madras:** Mr R Venkataraman has assumed charge in place of Prof. S. Trueman.
5. **Mookambigai College of Engineering:** Prof V Balasundaram is the first Counselor of the recently promoted Branch.

Madras Section welcomes the New Counselors and wishes them an eventful year ahead; also extends wishes to Dr V K, Dr B Viswanathan, Mr Udayachandran and Prof. S. Trueman all success in their new assignments.

New Chapter Officers

1. **PES Chapter:** In the AGM held on Jan. 14, the following were unanimously elected:
Dr V Sankaranarayanan—Chairman.
Dr K Udayakumar—Secretary.

2. **EM & IA Societies Joint Chapter:** In the AGM held on Mar 22, the following were unanimously elected:

Mr N K Nathan—Chairman.
Mr T Sridharan—Secretary.

3. **Computer Society Chapter:** In its AGM held on March 22, the following were elected unanimously:

Dr A Mathialagan—Chairman.

Madras Section welcomes the New Chapter Officers and wishes them excellent Member participation. Our members may look forward to a lot of Technical activities from the Chapters under the dynamic leadership of Dr V Sankaranarayanan, Mr N K Nathan and Dr A Mathialagan.

Welcome New Members

M K Achutan (I I T)	M	0186817
V K Amutham (Kaybee Powerlec)		0164988
N Bharathi (M K Raju consultants)		0207654
Suresh P. Chander (SE, TNEB)		0207274
Shema M Dhas		2873206
Thomas George (Keltron)		0207613
V Janakiraman	S M	0013656
C R Joseph (Vincent Consultants)	M	0205088
N Pitchaimuthu (Anna University)		6925291
Bhasker Ramamuthy (I I T)		4441051
P H Rao (Crompton Greaves)		0143925
P R Vaya (I I T)		0165621
R Venkataraman (S V C E College)		0143917
K Arumugam (Controls & Drives)		0247395
P M Ganesh		0252312
Raj Ma Mariasingam		6445217

Welcome Members who have moved into the Section

Timothy A Gonsalves (I I T)	M	7423999
S Kittuswamy	S M	7392350

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BOOK POST

If undelivered please return to:

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218 Housing Board Colony
Tambaram Sanatorium
Madras - 600 047