

Chairman's Message

Dr. T. Thyagarajan
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Esteemed Members,

Hope this finds you at the peak of your dynamic professionalism. You will agree with me that this is examination season and I am sure, you will not mind if I devote my message exclusively for the student members.

My dear young, energetic and enthusiastic student members of IEEE, there are seasons for every activity – IPL Cricket/Soccer/ Tennis etc. Now the very important season for you (that is going to make a permanent mark in your future career) is the examination season. **Here are some useful tips for you to fare well in your examinations.** I have written them in such a way that you can remember them very easily using mnemonics (**NeTCo**, **InSeF**, **MUFASILN** and **SARAL**). Here you go.

1. Tips before going to Examination Hall (NeTCo):

Necessary items - Carry all the necessary **items** namely ID Card, Hall ticket, Instrument box, pen, pencil, eraser sharpener, calculator (if permitted)

Time - Reach the Examination Center well before **time**.

Cool & Calm- Be **cool and calm**. The tension may spoil your entire performance.

2. Hints before answering the question paper (InSeF) :

Instructions - Read the **instructions** given in the question paper & the answer booklet very carefully.

Selection of questions-Go through the question paper thoroughly and **select** questions for answering, keeping in mind the time required, marks allotted and familiarity etc.

Filling the first page - **Fill the first page** of the answer sheet correctly like the register number, name of the examination, name of the subject, code etc.

3. Tips while answering the question paper (MUFASILN):

Margin - Leave space for margin while answering. Also give sufficient space between the two answers.

Underline - **Underline** the subtitles and important points in the answer sheet.

First answer - The **first answer**, (especially) should be written in a nice manner (First impression is the best impression)

Avoid lengthy paragraph-While answering the questions try to

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Editorial Team

Mr. H.R. Mohan, Dr. T. Thyagarajan, Dr. S. Salivahanan,
Dr. P. Suresh Chander Pal, Mr. T.S. Rangarajan, Mrs. M. Ramalatha

From The Editor's Desk

H.R. Mohan
hrmohan@gmail.com



Dear Friends,

Our Chairman has proved himself as a dedicated teacher by presenting a timely, excellent and useful set of tips to the students to fare well in examinations. LINK wishes all the very best to all our student members in the forthcoming exams.

The proceedings of the two national conferences – “Information and Software Engineering” and “VLSI, Embedded Systems, Signal Processing and Communication Technologies” both organized by the Aarupadai Veedu Institute of Technology with the support of the Section and the IEEE Computer Society & Communication Society Chapters are reported in detail. The copies of the proceedings of these conferences have been added in the Section Library for reference.

This issue of LINK also reports on the 14th Faculty Development Programme on “Recent Trends in Applied Mathematics” held at Karunya University and the workshops held at RMK Engg College, MP Nachimuthu M Jaganathan Engg College, KSR College of Engg along with the seminar held at Hindustan Inst. of Tech & Science.

The other items reported in this issue of LINK include: Symposia at Mepco Schlenk Engg College, KS Rangasamy College of Tech, Kongu Engg College; Guest Lectures at Arunai Egg College; Personality Development Programme at Sri Muthukumaran Inst. of Tech, Intra College Programme at SVCE; WIE Programmes at Sri Muthukumaran Inst. of Tech, St. Xavier Catholic College of Engg, KS Rangasamy College of Tech.; Inauguration of the student branch at Madha Engg College and activities at Vivekanandha College of Engg for Women along with a short report on the brainstorming session at VIT University.

We regret once again for not publishing all the reports on the events received from various student branches due to space constraints. Missed items will be included in the next month issue of LINK

LINK congratulates Mr. H.R. Mohan, Chairman, IEEE Computer Society for receiving the Certificate of Appreciation for the third time in succession for the notable services and contributions towards the advancement of the CS Madras Chapter and the Computing Profession.

LINK congratulates Mr. Melappalayam N. Gokul of Mahindra Satyam and Mr. T. Dinesh of Sri Muthukumaran Inst. of Tech, the winners of Info Contest - 1003 who will receive a prize of Rs. 500/= each sponsored by SRA Systems. We are completing TWO years of this INFO CONTEST feature and LINK wishes to place on record the support from SRA Systems.

The offer of membership in IEEE & IEEE CS along with the access rights to the IEEE CS Digital Library at a discounted rate of USD 20 is still open for students. Please make use of this opportunity.

LINK requests the matter for publishing is sent by 8th of every month as per the guidelines available at <http://ieeecs-madras.managedbiz.com/guidelines-matter-for-ieee-mas-link.pdf>

Faculty Development Programme on “Recent Trends in Applied Mathematics” held at Karunya University



The 14th FDP of the IEEE Madras Section organized by the Karunya University started on 26th Feb 2010 with an inaugural function which was presided by Vice Chancellor Dr. Paul P Appasamy. In his presidential address, he stressed about the necessity of the faculty development programs. Dr. T. Michael N. Kumar, addressed the participants explaining about the IEEE and invited the non member participants to join IEEE. Dr. V. Rajkumar Dare, HOD, Mathematics Dept., Madras Christian College in his inaugural address, highlighted the importance of mathematics in Engineering field and its recent trends.

In the session on Topology and Automata theory by Dr. V. Rajkumar Dare, explained the

basic concepts in Linguistics and how our body itself is a language which is a collection of words from DNA components. Then he explained how algebra can be applied in language theory and related algebraic topology with linguistics. Finally, he enlightened on the recent research lines in that area. In the second session on ‘Differential Equations and applications’ by Dr. B. Selvaraj, HOD, Mathematics Dept., Karunya University, covered the basic concepts of difference equations and differentiated that with differential equations with real time examples. Also he explained about the recent improvements in that field. After lunch, Dr. Basheer Ahmed took a session on ‘Fuzzy logic and fuzzy graphs’ in which the basic concepts of fuzzy logic and its applications in engineering

field were covered along with explaining the fuzzy graphs and its applications. Final session of the first day was on Latex by Dr. Mallika Arjunan who briefed on latex and explained advantages of Latex over other documenting software. A practical session in Latex followed was very much helpful for all the researchers.

The second started with a talk by Dr. Indhira Rajasingh, HOD, Mathematics, Loyola College on Graph Theory and its applications in Computer Architecture. She, interestingly took the session by telling lots of background stories and explained the recent trends and works in the field of Graph theory and motivated delegates by providing lots of open research problems existing in Graph theory field. Then Dr. Devarul took a session on Probability theory and its applications. After covering the basic concepts of probability theory, he explained its vast applications in industries and also in the research field especially in medicine. After the lunch, Dr. E. Thandapani, in his talk on ‘Delayed Differential equations and its applications’, enlightened the participants by explaining about delayed difference equations with its applications. The final session by Dr. Mohan who conducted the practical in Matlab programming. He taught each participant how to write simple program in Matlab software. At the end, participation certificates were distributed to the participants all the 37 participants including 2 IEEE members.

Chairman’s Message continued....

avoid lengthy paragraphs. You can even write in the form of salient points.

Sequencing-As far as possible, try to follow a **sequence** while answering different ‘parts’ of question paper. Avoid mixing of Part ‘A’ answer with Part ‘B’.

Irrelevant answers -Answer ‘to the point’. Writing the additional **irrelevant** material is a waste of your precious time.

Legible answers - Answers should be written more **legibly**. Overwriting should be avoided.

Numbering the answers - Write the question **number** correctly for every answer.

4. **General Instructions (SARL) :**

Scribbling - Do not **scribble** ‘working’ on the question paper or on the writing desk in the hall.

Additional sheet - Tie the **additional sheets** in the correct order.

Rough work - Perform **rough work** in the last page of the answer booklet.

Leaving the Hall - **Do not leave** the examination hall before the end of the examination. Revise and attempt to write the unanswered questions.

May God’s choicest blessings crown all your efforts with brilliant success.

Finally, let me conclude my message by recalling the golden words,

He knows not and knows that he knows not is a child-teach him

He who knows and knows not that he knows is asleep-awaken him

He who knows not and knows not that he knows not is a fool-shun him

He who knows and knows that he knows is a leader-follow him.

With regards
Affectionate office bearer
Prof. T. Thyagarajan

Forthcoming Events

Networking 2010: International Conferences on Networking: 10-14, May 2010 at IIT Madras, Chennai, India. Sponsored by the IFIP Technical Committee on Communication Systems and organized jointly by IIT Madras and Computer Society of India. For details, pl. contact: Mr. S. Ramasamy, Chairman, CSI Chennai Chapter at +91 9840009417 OR visit <http://www.networking-2010.org/>

ICAET-10: International Conference on Advances And Emerging Trends In Computing Technologies: 21 – 24, Jun 2010 at Chennai, India, Organised by School of Computer Science & Engineering, SRM University in association with University of Arkansas, Little Rock, USA, Div II & Div IV, Computer Society of India, IEEE Computer Society, Madras Chapter. Contact: Dr. S. Chellaiah, Conference Chair ICAET-10 at icaet10@srmuniv.ac.in OR Mr. H.R. Mohan, Chair, Div IV at hrmohan@gmail.com Website: <http://www.srmuniv.ac.in/events.php?page=icaet10>

Workshop on “Fuzzy Logic Application to Power System” at M.P. Nachimuthu M. Jaganathan Engineering College



A one day workshop on “Fuzzy Logic Application to Power System” organized by Association of Electrical and Electronics Engineering & IEEE Student branch of M.P. Nachimuthu M. Jaganathan Engineering College was held on 26th February 2010 at the college campus.

Dr.C.K.Babulal, Associate Professor, Dept. of EEE, Thiagarajar College of

Engineering, Madurai was the chief guest. The College Correspondent “Udyog Rattan “Thiru J. Sudhanandhen presided over the function and delivered the presidential address. Principal Dr. K.Jagadeesan offered the felicitation. Mr. P.Selvan HOD/EEE welcomed the gathering. Selvi.Sivashankari, second year student introduced the chief guest.

The Chief Guest, Dr. C. K. Babulal, in his address, said that the habit of studying is inherent in engineering students. He stressed the students to attend more workshops and seminars which are more application oriented.

In his felicitation, the Principal Dr. K.Jagadeesan advised the students to enrich their knowledge by attending such kind of workshops.

The workshop had three sessions with focus on fundamentals, implementation and

application of fuzzy logic. All the sessions were interactive. Around 102 members participated in the workshop which included faculty members, P.G. Scholars and Research Scholars with various disciplines from various colleges.

In the evening, at the valedictory, the College Correspondent “Udyog Rattan “Thiru J. Sudhanandhen presided and the Chief guest, Dr.C.K. Babulal addressed that participants stressing the importance of workshops which facilitates interaction with each other about the advancements. Dr. K. Jagadeesan, Principal, in his felicitation said that these types of workshops help us to know about the fundamentals and at the same time about the current trends. He advised the students to use such kind of opportunities to explore more in this field. Certificates were distributed to the participants by the Chief Guest Dr.C.K. Babulal. Mr. K. B. Manikandan, Association Treasurer proposed the vote of thanks.

Workshop on “PLC & Its Applications” at RMK Engineering College

A two days workshop on “PLC & Its Applications” sponsored by the IEEE Madras Section was successfully organized by the department of Electronics & Instrumentation Engineering of R.M.K Engineering College, Kavaraipettai, on 19th and 20th February 2010. The response of the students for this workshop was amazing. Out of 150 registered across the country from reputed engineering colleges, 70 were short listed to participate and 67 attended the workshop.

Shri.V.V. Lakshminarayanan, Market Access Manager, Rockwell Automation India Pvt. Limited, Chennai inaugurated the workshop and delivered an informative keynote address on Industrial Automation and the role of PLC. He briefed on the history of automation, the concepts of PLC, the networking of PLCs and the evolution of PACs. The inaugural was followed by a Lecture Session on “Basic PLC Programming Concepts” by Mr. K. Samba Siva Rao, Lecturer – EIE. This session dealt with writing simple Ladder Logic for Gates and concepts like Latching and Timers. This lecture session was followed by a demo on Allen – Bradley PLC by Mr.C.R. Lakshmanraj, Application Engineer, Enpro Hitech Distributors Pvt. Limited. The last session of the first day was an extensive laboratory session on the basic programming concepts of Keyence



PLC. This session was handled by Mrs. V. Tamilselvi, A.P – EIE, Mrs.L. Annie Isabella, Lecturer – EEE / RMKEC and Mrs. V. Aarthidevi, Lecturer – EEE / RMDEC.

The second day of the workshop started with an interactive lecture session on “Advanced Programming Concepts” by Mr. K. Samba Siva Rao, Lecturer – EIE in which concepts like Counters, Process repeat etc. were discussed. This was followed by a laboratory session on building ladder logic for day to day control applications such as the two way and four way Traffic Control. Ladder logic for Practical Process Control applications such as two tank system, coffee maker system, biscuit manufacturing and conveyor systems were also developed.

The two days workshop ended with a valedictory function on 20th Feb 2010. The



chief guest of the function Dr. T. Thyagarajan, Professor & Head Department of Instrumentation Engineering, MIT Campus, Anna University, Chennai delivered the valedictory address. He briefed on the evolution of PLCs and the growing applications of it in the automation industry. He stressed on the importance of workshops of this nature for the participants in view of their placements. He made the participants understand the need for team building to achieve greater heights in their career. He also showed the pathway for the students to cope up with the growing competition. The informative valedictory address was followed by certificate distribution to the participants.

The workshop was coordinated by Prof. K. A. Mohamed Junaid, HOD – EIE and was co coordinated by Mrs. V. Tamilselvi, A.P – EIE & Mr. K. Samba Siva Rao, Lecturer – EIE.

ABHIVART'10 Symposium at Mepco Schlenk Engineering College



Successful men and women think with a new streak always. If such persons of high thinking gather to give a symposium, we would get nothing but ABHIVART'10 on 5th march 2010. The auspicious and blessed is the time of inauguration by lighting the kuthuvilaku and singing the prayer song in the presence of the dearly awaited guest, Dr. N. Raghavan, the honorable Prof. & Head of ECE department of the National Institute of Technology, Trichy. His illuminating lecture on "Micro Antennas" made every brain tick.

The delegates came from different parts of Tamil Nadu such as Madurai, Chennai and Coimbatore.

The paper and project presentations were both brain busters, the judges being very querulous. But they also had hard time in choosing the winner as every delegate was uniquely good for the trophy. Being very stringent and judicious, they choose only the highly deserved ones.

The program of Circuitrix is the essence of Elec IQ bringing both inter and intra students in throngs to the lab. This session has to be extended to the afternoon also due to the wide response it got while the technical paper and project presentations ended with the morning session itself. The delegates were treated to a rejuvenating meal so as to strengthen their resolve for the next round of events.

The B-PLAN bought out the managerial skills. This innovative approach was

to be their first step to entrepreneurship. The Virtual Share Marketing (VSM) was an the other way gambling into the path of Dalal Street. The balance sheet at the end of ten days of virtual buying and selling of shares gives out the winner.

VIDYUT Quiz (general) was the cliché but it was made zeitgeist by the compeering by our own IEEE Student Members. The stress management was the fitting jewel atop the day long crown of events. The committee had a different way of testing the effective stress handling capacity of the participant.

"All that begins well, ends well"

Abhivart'10, from sunrise to sunset satisfied every expectation of the audience, participants, the committees, the organizers under the support of staffs, the Heads of various Departments, our Branch Counselor Mr. C.Kalyana Sundaram and our illustrious Director – MCA, Dr. G. Chandrasekaran.

Seminar at Hindustan Institute of Technology and Science



In association with Hindustan Institute of Technology and Science, the IEEE students' branch of HITS conducted a one day seminar on "Recent trends in Semiconductor research, Advances in non-volatile memories, Solar cells and Solid state lighting" on 16th February 2010.

Dr.R.Devanathan, Principal and Vice Chair, IEEE Education Society chapter of IEEE India Council addressed the gathering and in the welcome note highlighted the importance of the seminar topic.

Mrs.A.K.Parvathy, Associate Professor of EEE Department of HITS had introduced the speaker Dr. N. Ganapathi Subramaniam, Assistant Professor, Dongguk University, Republic of Korea and member of Quantum

Functional Semiconductor Research Center (QSRC).

In the morning session, the speaker in his lucid talk to the UG and PG, IEEE members and Research scholars, explained the current trends in the semiconductor research and highlighted his achievements and related results. After covering about the basics and the advances in the volatile memory, he had briefed the operation of solar cells and explained the ways for enhancing the energy collection by the solar panels. He, further detailed about the importance of solid state lighting. He, then, explained the major role going to be played by the LEDs in lighting in the future.

More than 200 students and faculty of HITS had attended the first session and gained knowledge. Students had shown active participation in the session by answering the questions raised by the speaker during the talk.

In the Afternoon session, the speaker spoke on "Summer School Opportunities and Education in Korea for the Students". More than 150 students participated and benefited by his talk.

Mrs. B. Aruna Rajan, Associate Professor

of EEE department proposed the vote of thanks thanking the Management, The IEEE student's branch and the speaker for the wonderful seminar.

Report by Mr.E.Terence Student Counselor and Mr. Guru Prasad Student Chair.

Section Membership as on 15th April 2010

Life Fellow	-	1
Fellow	-	1
Life Senior	-	6
Senior Member	-	73
Life Member	-	4
Member	-	908
Associate	-	60
Affiliate	-	28
Graduate Student Member	-	977
Student Member	-	4494
Total	-	6,552



**IEEE MAS LINK
SRA Systems**

Info Contest

H.R. Mohan

Chairman, IEEE CS, Madras Chapter
Editor, IEEE MAS LINK
AVP (Systems), The Hindu, Chennai

This is the 24th edition in the series of Info Contest – a regular column in our newsletter IEEE MAS LINK. The content mix now includes some General Knowledge questions in addition to IT related. This, we believe would provide an overall exposure and also facilitate more participation.

TWO lucky winners who answer to maximum no. of questions and early (selected by lot if multiple entries qualify) will receive an award of Rs. 500/= each, sponsored by SRA Systems.

Members are encouraged to participate in the contest and win prizes. Answers are to be sent by EMAIL ONLY. Please follow the guidelines provided at the end of the questions.

With this edition, we will be completing TWO years of this column INFO CONTEST in the newsletter which has attracted a no. of members. We thank SRA Systems for their continuous support in the form of cash awards.

Info Contest – 1004

This contest has 25 questions in five sections - A, B, C, D & E - each having five questions.

A. Provide the answer.

- A1. Who makes the PlaySport Video Camera, capable of shooting full 1080p HD even underwater? Sony / Kodak.
- A2. Which IT company's tagline is "Let's Do Amazing."
- A3. Name the on-demand movie service from Sony
- A4. Name the engineer cum doctor who is considered as the "Father of Personal Computer" and who had inspired Bill Gates & Paul Allen the founders of Microsoft
- A5. Name the optimized build of Mozilla Firefox for Linux

B. Provide the answer.

- B1. Amazon : Kindle = Plastic Logic : _____
- B2. All IPL 2010 matches will be webcast on Youtube.Com/IPL with a _____ minute delay in India
- B3. _____ is the Twitter like site, which is

about macro blogging and requires every post to have a minimum of 1,400 characters

- B4. Blog : Posts = Twitter : _____
- B5. MINIX is a portmanteau word made from the words Minimal and _____

C. Fill in the blanks.

- C1. Google and Intel have teamed with Sony to develop a platform called _____ to bring the Web into the living room through a new generation of televisions and set-top boxes
- C2. _____ was the first dot com domain name registered 25 years ago
- C3. _____ is the Twitter style version of Wikipedia that gives definitions in under ten words with a touch of humour
- C4. _____ is a free software project (supported by Sun Microsystems) under the GPL to create an innovative 3D desktop environment for Linux, Solaris, and Windows
- C5. 'World Day Against Cyber Censorship' is observed on _____

D. Select the right answer.

- D1. This country does not have any constitutional provision to provide free and compulsory education to children. US / UK
- D2. Good Friday is observed on the Friday, preceding / following the Easter Sunday.
- D3. The cartoon character who is also known as "the Caped Crusader", "the Dark Knight", "the World's Greatest Detective" is Batman / Superman
- D4. Whose image is the most reproduced in the world? Mickey Mouse / Jesus
- D5. Who is considered to be the first billionaire novelist? J B. Rowling / Agatha Christie

E. Fill in the blanks / provide the answer.

- E1. _____ is the 126th career of Barbie (Doll to be available in Winter 2010) which was recently (in Feb 2010) decided based on votes that poured in from her fans all over the world
- E2. After the President Pratibha Patil, _____ became the second person to be enumerated for the 2011 Census
- E3. The World Health Day is observed on _____
- E4. The colour of the black box flight data recorder is _____
- E5. _____ is the only metal that is liquid at room temperature

Guidelines to submit the answers to the Info Contest by email.

In the Subject,

- Write the Contest No. (Info Contest – 1004) in the subject line.

In the body of the mail,

- In the first line, write the contest No: Info Contest – 1004
- In the second line, write your membership no.
- In the third line, write your email id.
- In the fourth line, write your name.
- In the fifth line, write your college / organization name
- In the sixth line, write the answers to the five questions of Section A, separated by comma.
- In the seventh line, write the answers to the five questions of Section B, separated by comma.
- In the eighth line, write the answers to the five questions of Section C, separated by comma.
- In the ninth line, write the answers to the five questions of Section D, separated by comma.
- In the tenth line, write the answers to the five questions of Section E, separated by comma.

As the evaluation of the entries is automated, pl. ensure the above guidelines are followed.

Email the answers to:
harmohan.infocontest@gmail.com

The last date to receive the answers by email is 5th May 2010.

Info Contest – 1003:: Answers & Winners

Answers:
A3, ZZZ, Cutie, BBFN, Think Positive
Buzz, False, Eiffel, IMEI no, Sholinganallur IT park
Telenor, RIM, IaaS, Tim Bernes Lee, Virgin Mobile
1st Women to get this award, A-Star, Jyoti Basu,
Cancerous Mouth, 11th March
LIC Mutual fund, Lakshmi Mittal, Qatar, False,
False

Winners:



Melappalayam N. Gokul
Mahindra Satyam
Mem No : 80659991
Email: ngokul25@gmail.com



Dhinesh.T
Sri Muthukumaran Institute of
Technology
Mem No. : 90745242
Email: teki.dhinesh@gmail.com

Both the above will be awarded a prize of Rs. 500/= each. LINK acknowledges with thanks the sponsorship of the awards by SRA Systems (www.srasystems.com).

NCISE-2010: National Conference on Information and Software Engineering



IEEE Computer Society Madras Chapter, IEEE Computer Society Branch Chapter-AVIT and Department of Information Technology, Aarupadai Veedu Institute of Technology organized a two-day national conference on Information and Software Engineering, during 26-27, Feb 2010 at the TTDC Beach Resorts, Mahabalipuram. The event was supported by CSIR and the Div II on Software of CSI. The Conference was inaugurated by Capt. K. Srinivas, Vice-President, Capgemini. In his inaugural address Capt. Srinivas stressed the necessity of in-depth knowledge in the design so as to produce quality software. Following the inauguration, Mr.V. Viswanathan, Senior Manager-HR, Wipro Technologies, Chennai, released the conference souvenir and delivered

the keynote address. Sri. H.R. Mohan, Chairman, IEEE Computer Society Madras Chapter & Div II, CSI and AVP (Systems), The Hindu, released the conference proceedings and delivered a special address to the delegates, focusing the importance of research under Software Engineering, in particular software design and development. He also outlined the benefits of being the member of IEEE CS which certifies professionals in the Software Engineering. Dr. A. Anthony Irudhayaraj, Dean (IT), Program Chair of the conference welcomed the gathering and provided the highlights of the conference. Prof. C. Karthikeyan, Head of the Department (IT) & Vice Chair of the conference, proposed the vote of thanks.

Around 200 delegates including research

scholars, faculty members, professionals from industry and students from all over the country participated in the conference. About 70 technical papers out of 180+ papers received were presented both in Information and Software Engineering. Renowned specialists and domain experts from industry and academia delivered invited talks lectures and shared their rich and varied experiences. The following were the invited talk sessions.

- “Software Performance Engineering” by Mr. Ramesh Lakshmanan, Senior IT Manager, Infosys, Chennai.
- “Effective Project Management — Key to overall Software Engineering Success” by Prof. Gopaldaswamy Ramesh, Consultant and Adjunct Professor, IITB
- “Producing Quality through better understanding of Software Engineering fundamentals” by Mr. Srinivasan Desikan, HP Research Lab, Bangalore.

Dr. D. Damodharan, Additional Director & Scientist ‘E’, Centre for Reliability, Department of Information Technology, Government of India, Chennai addressed the delegates during the valedictory function and distributed certificates. Dr. (Mrs) N.R.Alamelu, Principal, AVIT, Chairperson of the conference, gave away the presidential address.

National Level Technical Symposium COM μ NIX’10 at K. S. Rangasamy College of Technology



IEEE student branch of K.S. Rangasamy College of Technology in association with Department of Electronics and Communication Engineering conducted COM μ NIX’10, A National level technical symposium on 19th & 20th Feb 2010 sponsored by IEEE Madras Section.

Mrs. Ramalatha Marimuthu, IEEE R10 WIE Coordinator, IEEE Madras section WIE chairman, adorned function as the chief guest.

Dr. K. B. Jayanthi, Prof & Head, Dept of ECE, welcomed the gathering. Dr.K.Thyagarajah, Principal, KSRCT, presided and delivered the presidential address. Dr. K. Duraiswamy, Dean, KSRCT, offered the felicitations. Prof. T.D. Senthilkumar, convenor-Communix’10, introduced the distinguished chief guest.

In the inaugural address the chief guest Mrs Ramalatha Marimuthu initiated the discussion on IEEE and delivered a motivating speech. She explained the activities on outreach programmes and the Sangamam project.

Students from various colleges presented their papers so as to proven their technical skills. Out of 300 papers and 30 projects received, 96 papers 14 projects were selected for presentation. The events conducted during the symposium included:

- Tour de force (paper presentation)
- Invenzione (project presentation)
- Cyber Xodus
- Victorina(Quiz)
- Brain vista
- Code Blast
- Final Destination
- LAN Gaming
- Fun Test
- Technomania.
- Culturals

The paper presentation session was very interactive and the students enjoyed all the events. It was a delightful technical treat to the students. During the valedictory function the winners were awarded by the distinguished chief guest. The vote of thanks was delivered by Dr. N. Santhiyakumari , IEEE Student Branch counselor, KSRCT.

Report by: Dr.N.Santhiyakumari, Prof/ECE, santhiyarajee@rediffmail.com

NCVESCO'10: National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies at AVIT



The Dept. of ECE, Aarupadai Veedu Institute of Technology (AVIT), Vinayaka Missions University organised the third National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies (NCVESCO'10) during April 2nd to 3rd, 2010 at AVIT, Chennai. The conference was co-sponsored by

- IEEE Madras Section
- IEEE Communication Society, Madras Chapter
- IEEE Computer Society, Madras Chapter
- Council of Scientific & Industrial research
- Tamil Nadu State Council for Science & Technology
- Broadcast Engineering society (India)
- IETE Madras Chapter
- Computer Society of India, Div II (Software) & Div IV (Communications)

The conf. attracted over 180 papers and after a review process, 60 Research papers were selected for presentation at the Conference under the themes of VLSI, Embedded Systems, Signal Processing and Communication Technologies.

At the inauguration on 2nd Apr, 2010, Prof. D. Vijendra Babu, Head of the Dept. of ECE and co-chair of the conference welcomed the gathering. Prof. R. Vijaya Arjunan of the Dept. of ECE and the organizing secretary of the conference briefed about the conference. Dr. N. R. Alamelu, Principal and Chairperson of the Conference delivered the Presidential address.

Dr. P. Swaminathan, Head, Electronics and Instrumentation Division, Indira Gandhi Centre for Atomic Research, Kalpakkam was

the chief guest of the conference. After the formal inauguration of the conference, in his keynote address, Dr. Swaminathan highlighted the importance of the signal processing and communications in managing the operations of the nuclear reactor installations. He added that IGCAR and other nuclear establishments attract qualified engineers from all the branches of engineering for a bright career as the country is going in for nuclear power generation in a large scale.

Shri. R. Vidyasagar, Chief Engineer, All India Radio & Doordarshan, South Zone was the Guest of Honor and while delivering his special address he recalled the tremendous developments that had taken place in the broadcasting industry and the role of various technologies.

Shri. H. R. Mohan, Chairman IEEE Computer Society, Madras Chapter, Chairman Div IV of CSI and Associate Vice President

(Systems), The Hindu released the conference proceedings both in Print and Electronic form. In his address, Shri Mohan after highlighting the rapid developments in the areas of the conf. interest and their impact on the society, emphasized the need for such conferences where in researchers could share their experiences with the world.

Prof. P. Subramanian, Dept. of ECE and programme coordinator of the conference proposed the formal vote of thanks

This two days conference apart from the paper presentations in four tracks had the following invited talks which were appreciated by the participants numbering around 200 comprising of industry professionals, academic faculty, researchers and students.

1. "Sensor Networks" by Dr. P. Swaminathan, Head, Electronics and Instrumentation Division, IGCAR, Kalpakkam.
2. "Speech & Image Processing - An Overview" by Dr. P. Jaganathan, Deputy Registrar (Education), Vinayaka Missions University.
3. "Entropy and its Applications" by Dr. K. Gunavathi, Professor, PSG College of Technology, Coimbatore.

The authors of the Best Paper in each track were awarded with a cash prize of Rs.1000 and merit certificate.

For copies of the conference proceedings, pl. contact Prof. D. Vijendra Babu at dvijendrababu@gmail.com

Inauguration of Student Branch at Madha Engineering College



The IEEE student branch of Madha Engineering College, Kundrathur, Chennai - 600 069 was inaugurated on Monday, 1st March 2010. Dr. P. Suresh Chander Pal, Chairman

Students Activities Committee IEEE Madras Section inaugurated the branch and was also the Chief Guest at the event. The event commenced with an invocation. The Vice Chairperson Ms. P. Mercy Florence, Mrs. G. Uma Gowri – Head of ECE Dept. and the Branch Mentor welcomed the gathering. Dr. C.B. Lakshmikantha, Principal appreciated the members and expounded on the primary objective to be accomplished through the student branch. Dr. M. Ramswamy, Dean of PG Studies motivated the students by his brief talk sharing the keys to success. N.P. Karthickeyan, Chairman, student branch proposed the vote of thanks.

Inauguration of Activities & Project Expo at Vivekanandha College of Engineering for Women



The IEEE Student Branch activities of Vivekanandha College of Engineering for women were inaugurated on 3rd March 2010 by Dr. M. Nagarajan, Scientist-E, DRDO-LRDE, Bangalore.

The function started with the prayer song. The Inauguration of the activities was embarked in a traditional way by the lighting of kuthuvilakku. The Principal Dr. R. K.Gnanamurthy welcomed the gathering and spoke on the History & Benefits of being an IEEE member. The Chief Executive Officer

Thiru. S. Meganathan and Dr.Vathapureeswaran HOD/English offered their felicitations. Mr. B. Gopinath Asst Prof & Head/EEE and IEEE Student Branch Mentor introduced the Chief Guest. Mrs.T.R. Sumithra Asst Prof/EEE, IEEE Student Branch Counselor briefed on the IEEE Constitution and then formed the various committees and introduced the office bearers of IEEE Student Branch.

The Office bearers are

Ms. P. Divya Priya - Chairperson
 Ms. S. Jennifer - Vice-Chairperson
 Ms. Meera Raveendran - Secretary
 Ms. M .Yamuna - Treasurer

Ms. P. Divyapriya IEEE Student Chairperson proposed the vote of thanks and the function ended with national anthem.

In the afternoon, "Student Technical Project Expo 2010" was organized as a part of

the IEEE Student Branch Activities. Out of 196 projects received from 42 Engineering Colleges, after a peer review process of the project synopsis, 26 projects were selected for exhibiting in the Project Expo. The Juries were Dr. S. Thangavel, Professor & Head/EEE, KSR College of Technology, Tiruchengodu, Ms. N. Mohanapriya Asst.Prof/EEE, Vivekanandha College of Engineering for Women, and Ms. K. Thenmalar Asst.Prof/EEE, Vivekanandha College of Engineering for Women.

The Project Expo attracted the faculty members and students from various depts. The best three projects were selected by the Jury team and the prizes were distributed by the college Chairman Vidya Rathna, Rashtriya Rattan, Hind Rattan Prof. Dr. M. Karunanithi, Chairman and Secretary Vivekanandha Educational Institutions. The function was indeed a grand success.

*Report by: Mrs.T.R.Sumithra,
 IEEE Student Branch Counselor,
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Women's Day Celebration at Sri Muthukumaran Institute of Technology



The IEEE student branch and Women in Engineering Affinity Group of Sri Muthukumaran Institute of Technology, Chennai celebrated International Women's day on 8th March, 2010.

The International Women's Day (8 March) is a global day celebrating the economic, political and social achievements of women, past, present and future. The WIE (Women in Engineering) vice chairperson Ms. S. Keerthana addressed the gathering.. Mr.Zakir Hussain, lecturer EEE addressed the gathering about the role of women in the past history.

Prof. A. Murugesan, Prof. A. Murugesan,

HOD, department of EEE spoke on the importance of women in the day- to-day life and wished all the WIE members to attain their goals. He then briefed the members about the various techniques in reducing power losses in transmission system. Our branch counselor Mrs.G.Janaki, lecturer EEE put forward the various fields in which women shine and made all the WIE members to take an oath on this day to succeed in their respective interests. She also, spoke on the various hurdles faced by women in daily life.

*Reported by: Keerthana.S,
 Vice chairperson, WIE-AG*

Workshop at K.S.R. College of Engineering



IEEE Student Branch of K.S.R. College of Engineering organized a workshop on "Real Time Project Design Using Microcontrollers" on 26th Feb 2010. Er. P. Jayachandar, Managing Director, ABC Computers, Erode was the guest speaker at the workshop. Around 200 Students from Electrical & Electronics Engineering and & Electronics & Communication Engineering participated in the workshop. The workshop was very informative and very interactive one with series of queries from the students.

The highlights of the talk include:

- ◆ Importance of Controllers
- ◆ Implementation of Controllers
- ◆ Tools for Programming
- ◆ Real Time Operating System

*Report by: Mr. S.Ramesh, AP-EEE,
 IEEE Student Branch Counselor.*

AVANZARE '10: National Level Technical Symposium held at Kongu Engineering College

IEEE student branch of Kongu Engineering College conducted a National Level Technical Symposium, AVANZARE'10 on 19th and 20th March 2010. Avanzare '10 bears in itself the meaning 'progress', was a hang-on package of talents, enthusiasm, knowledge, innovation and fun.

The function was inaugurated with a prayer song. The Branch coordinator, Prof. K.Narayanan welcomed the president of the function, Prof.S.Kuppuswami, (Branch Counselor) the Principal of Kongu Engineering College and the student participants. In his presidential address, the Principal appreciated the students for their active participation and enthusiasm for conducting the grand event of Avanzare. With this note of pride, the events for the day kick started with TechCarto – paper presentation contest and Proyecto – poster presentation contest.

Twelve papers were selected from 250 papers and the papers presented took a wide range including most of the promising technologies like Pervasive Computing, Virtual

Instrumentation and Robotics. Proyecto was a project presentation contest which was a launch pad for the project aspirants. In the poster presentation contest participants discussed very picturesquely the burning issue of the world including Global warming and Rural Development. It highlighted the artistic and design skills of the students.

Following it, the preliminary rounds for various events like software and hardware contests were held. Situation handling was also conducted in which students were given an on-spot situation and they were given thirty seconds to think, and one minute to speak as to how they will react in the particular situation. It was a test to the student's spontaneity, reasoning and shrewdness. The last event of the day was a technical quiz which gave the perfect finish to the day.

On the second day, Mr. S. N. Barathi, Managing Director, Tensor Consulting Pvt Ltd, Coimbatore addressed the participants on "Energy Audit-A Booming Sector" with fascinating case studies which employs cutting

edge technologies to conserve energy. His objective was to install first hand expert information about the recent energy auditing schemes in the minds of the future Engineers. He also focused on the promising Career options awaiting the students. The session turned out to be an interactive one with a series of queries from the students. To express the gratitude of IEEE-KEC, Prof. K. Narayanan presented a memento to the chief guest.

The afternoon session was an entertainment package with events like Battle City which was a leisure event to bring out the gaming talent in oneself. The session geared up with the final rounds of hardware and software contests. The Multimedia Contest made the session active and lively. Various on the Spot fun events were conducted that added an extra color to the day. The day ended with the valedictory function and the prize distribution session for the events was held.

On the whole Avanzare'10 was one of its kinds and had truly exceeded the expectations. It was a blast with loads of innovation and creativity that gave an excellent platform for the students to excel on technical grounds.

Report by: Sheetal Bhararia, Secretary, IEEE Student Branch, sheetal.8689@gmail.com

Aura 2010 – Intra College Program at Sri Venkateswara College of Engineering

The IEEE Student Branch of Sri Venkateswara College of Engineering, Sriperumbudur organized an intra college program, Aura 2010 on March 9th and 10th in the college premises. The program comprised of 5 innovative events and two guest lectures by eminent personalities. The following events namely Quiz, Board Room, Eureka, Geo Hunt and Rags-to-Riches were conducted. There were around 400 participants from various departments of the college for the program.

The first day had 2 events followed by a guest lecture by Mr. K. Bhaskar, General Manager of Kyungshin Motherson Pvt. Ltd. He gave a talk on "The role of management in engineering" and stressed the importance of managerial ability for budding engineers and its reflection in day to day life. The first event Eureka was about science, inventions and their inventors. The participants were primarily tested on their knowledge about inventions and the finalists had to prove their insight into the same by contradicting accepted but unproven theories in science. The second event Board Room, tested their knowledge of the corporate

world. They were tested on their business acumen in random situations provided to them.

The second day comprised of 3 events and a guest lecture. Geo Hunt tested on the ability of the participants to identify locations based on clues. Rags to Riches gave an opportunity to convert a pile of junk and random materials to useful products. A quiz programme was conducted to test the knowledge of participants in diverse fields. The event

concluded with a talk on "Experimental skills" by Prof. Shreepad Karmalkar, IIT Madras in which he spoke on the importance of identification and correction of random errors and system errors. He explained with examples on the importance of the methodology and procedure for conducting experiments. He also stressed in the importance on monitoring all the parameters of the test setup to prevent unforeseen errors.

Addition to Section Library

We are pleased to inform that the proceedings (both in Print & CD) of the National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies (NCVESCO'10) held during April 2nd to 3rd, 2010 at AVIT, Chennai has been added to the Section Library. For copies of the conference proceedings, pl. contact Prof. D. Vijendra Babu at dvijendrababu@gmail.com



Brainstorming Session on “Achieving Excellence in Professional Development Programmes” at VIT University



Prof. D.P. Kothari, Vice Chancellor, VIT Univ., chaired a brainstorming session on the role of professional societies in education and research. A select group of about 25 professors representing IEEE, Computer Society of India and other leading professional societies participated in the session and contributed in the lively interaction on 19th Feb 2010.

The VIT University's IEEE Student Branch, established way back in 1993, has been rated one among India's best IEEE Student Branches. The university has a strong presence of the Computer Society of India, India's first and the largest IT professional body, established on 6th March 1965 and has been adjudged as the CSI Best Student Branch for the 2008-09. Under the dynamic leadership of Prof. D.P. Kothari, the faculty and students formed an IEEE Women in Engineering (WIE) affinity group on 25th Aug 2009.

Prof. H.R. Vishwakarma, welcomed the participants and gave a brief on the IEEE and its activities. He also gave an overview of the IEEE-Computer Society of India agreement at the national/international level. At the organizational level, the IEEE Computer Society has entered agreement with VIT University (this is unique distinction as no other academic institute has achieved this) from India Academia and Siemens Information Systems, Bangalore from Industry. He mentioned proudly that the VIT University has been among very few Indian universities frequently visited by IEEE distinguished members and officials – including President and Vice President of IEEE Computer Society.

Prof. V. Arunachalam and Prof. P. Swarnalatha briefly spoke about the achievements of the IEEE Student Branch and IEEE WIE.

Subsequently, the participants joined the brainstorming session on the role of professional societies in education and research focusing on the need for radical innovations. They opined that the professional development and formal engineering education must go hand-in-hand for opening new vista of opportunities. The universities and professional organizations must launch a variety of outreach programmes aiming at development of next generation engineers and technology leaders. There are numerous opportunities of research and innovation for faculty and student through the professional societies. To name a few, model curricula development, the distinguished lecture programmes, student internship programmes, project completions and young achiever awards, financial support for attending international conferences, best faculty and best student awards, awards for academia introducing educational technologies, support for research and publications, access to knowledge resources – digital library – the list goes on.

During the concluding discussion, it was resolved to work towards forming the IEEE Vellore Subsection located in the VIT University under the dynamic leadership of the Vice Chancellor Prof. D.P. Kothari. The meeting ended with the participants thanked Prof. D.P. Kothari for his guidance and encouragement.

Report by: Prof. H.R. Vishwakarma, VIT Univ.,

SPIRITUA: IEEE & WIE Awareness Programme at St. Xavier's Catholic College of Engineering



An awareness programme SPIRITUA was conducted by the St. Xavier's Catholic College of Engineering IEEE WIE SB Affinity Group on 13th March 2010. About 75 members including faculty and student members from 10 colleges in and around Nagercoil attended the programme.

The Code of Ethics was read by Ms. J. Rex Fiona, IEEE Student Member. Ms. Teresa Mary George, IEEE Student Member, welcomed the gathering. The correspondent of the college Rev. Dr. V. Hilarius delivered the presidential address. Mrs. A. Subitha, faculty advisor of WIE introduced the chief guest Mrs. Ramalatha Marimuthu who in her address mentioned about the development of women and the involvement of IEEE and WIE in the college. Dr. S. Joseph Sekhar, Principal of SXCCE felicitated the gathering. The inaugural session came to an end with the vote of thanks by Ms. Nimmy Balakrishnan, IEEE Student Member.

After the inauguration, Mrs. Ramalatha

Marimuthu., in the awareness programme on “IEEE and WIE” spoke on the advantages of IEEE and WIE and gave guidelines on how to start an IEEE student branch and WIE in colleges and actively participate in it. She gave a brief overview of the framing of committees, officer reporting, applying for funding, reporting the events, applying for digital library getting the most out of membership, and many other essentials the branch officers need to know. She also mentioned the awards given by the IEEE, their benefits and the various facilities provided by IEEE & WIE.

The programme came to an end by the distribution of certificates by Mrs. Ramalatha Marimuthu to the external participants. The programme was arranged by Mr. C. John Mosses.

Report by Saji KV

“Becoming A Successful Engineer” - Lecture at Arunai Engineering College



As a part of technical activity for the month of February, ARUNAI IEEE student branch organized a guest lecture for the first year students on 25th Feb 2010.

The lecture was given by Mr. Vijaya Kumar, Chief Mentor, The Professionals on “How to become a successful and employable engineer”. Arunai IEEE Student Branch coordinator, Sr.Lr Kumaravel welcomed the gathering. Director R&D, Dr. M. Arumugam felicitated the gathering with many useful criteria to follow for becoming a successful engineer. Mr. Mahendran, The

Professionals, also graced the guest lecture with his presence and felicitations.

The lecture by Mr. Vijaya Kumar was an eye-opener not only to the first year students, but even to all the IEEE student members who attended the lecture. The informative and an interactive talk inspired and motivated the young minds. Mr. Vijaya Kumar explained in an interesting way about the present competitive atmosphere and how should the students prepare themselves for the campus selection. He stressed the need for developing good communication and soft skills at the earlier stage itself. In the Q&A session, the students came up with many doubts which were clarified and suitably answered with patience by the guest speaker. The vote of thanks was delivered by Ms. M.Papitha, Chair, Arunai IEEE Student Branch.

Report by: Mr. M.Giridharan, Head, Website Committee, Email: iriam.cse.2@gmail.com

Guest Lecture at Arunai on “Guidelines to prepare and present papers in IEEE conferences”



A guest lecture for the benefit of PG students on “Guidelines to prepare and present papers in IEEE conferences” was arranged by ARUNAI IEEE student branch on 1st March 2010. The chief guest was Dr. S. R. Paranjothi, Dean, Rajalakshmi Engineering College.

ARUNAI IEEE student branch councilor Mrs. Vijaya Ravichandran, welcomed the gathering and shared her experience on presenting papers. Director R&D, Dr. M.Arumsugam felicitated the gathering with very valuable tips on preparation of papers.

Through the informative lecture by Dr. S.

R. Paranjothi, the procedures for presenting a paper in IEEE were explained. The speaker threw light on various criteria that was to be noted throughout the preparation process. Few of them included body language, originality of the paper, technical content of the paper, IEEE format, extraction of information from multiple references etc.

On the whole, it was a very informative lecture by the guest. The programme came to an end with the vote of thanks by Ms. A.Arthi, Treasurer, Arunai IEEE Student Branch.

Report by: Mr. V.Santhosh, Head, Website Committee, Email: sans1601@gmail.com

Personality Development Program at Sri Muthukumaran Institute of Technology



The IEEE Student Branch of Sri Muthukumaran Institute of Technology organized a Personality Development Program on 11th March, 2010. Behavioral Scientist Dr. Ganapathy Vijayakumar was the guest speaker at the programme. The college principal Dr. M. Sundar and Head of EEE Dept. Prof. A. Murugesan graced the occasion. The program started with a prayer song by pre-final year students Ms. Mahalakshmi and Ms. Jamuna Kannan. Then introduction about the IEEE was given by Mr. M. M. Hari Krishnan for the benefit of Non-IEEE members and fresher. The chief guest and the college principal together released the student branch magazine “INSIGNITER”.

In the afternoon, the guest speaker started the program with a small trick game inviting two teams each of 6 members. This grabbed the attention of the audience. He presented the students with an excellent lecture on how to learn from our mistakes and the skills we need to develop for successful career. Assessment form was circulated to all the participants to assess their lateral thinking skills, memory skills and...etc. The five lessons from the pencil, magical keys to success, self improvement program are the highlights of the training. The Dept. HOD appreciated the IEEE members for organizing this program in a grand manner. The Vote of thanks was offered by our student branch vice chair Mr. M. Karthik. All the participants were provided with a certificate of participation and a copy of the magazine launched. AT SMIT, we are planning for a no. of interesting activities in the near future. Together everyone achieves more, it's the team. Team work never fails.

Mr. J. Dinesh Kumar, Chairman, SB

Guest Lecture on “Women In Engineering” at K.S. Rangasamy College of Technology



IEEE student branch of K. S. Rangasamy College of Technology organized a guest lecture on “Women In Engineering” on 19th Feb 2010 in association with the Department of Electronics and Communication Engineering. Welcome address was delivered

by Ms. Richu Paul, IEEE graduate member. The chief guest Mrs. Ramalatha Marimuthu R10, WIE coordinator & IEEE Madras section WIE chairman was introduced by Dr. N. Santhiyakumari, IEEE student branch counselor.

In the guest lecture, the chief guest Mrs. Ramalatha emphasized the students about what is IEEE?. Why IEEE?. Benefits, that one can receive as a member of IEEE. She advised the students to come up with creative thoughts and work on it. She also emphasized about humanitarian projects and students role in that area.

She talked about early developmental disorders’ and disability like dyslexia and autism are difficult to detect in early stages in children. She said that Mr. Sampathkumar Veeraragavan of Brahman research forum and WIE team, Madras Section have joined together in developing screener software for the detection of disabilities and disorders.

She also briefed about the initiatives on outreach programs and sangamam project, and a seed plan as a part of sangamam project in a village. It was very well received and the efforts of the members and students for such a good cause were appreciated by all (members). Finally Ms. C. Indhumathi, IEEE graduate member proposed the vote of thanks.

Report by: Dr. N. Santhiyakumari, Prof/ECE, santhiyarajee@rediffmail.com

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www.ewh.ieee.org/r10/madras

Posted On : 24th April 2010

Posted at: Egmore RMS (Patrika)

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