

## Chairman's Message

**T.S. Rangarajan**

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Dear Members

After the summer break, colleges have reopened and so have IEEE activities. We are seeing new student members and great enthusiasm among student branches to start activities. While interacting with members in various fora and through various communication channels, I would like to share a few perceptions that I have gathered

- Some institutions are very aggressive in deriving benefits from IEEE memberships. They encourage their students to become student members of IEEE early in college and progressively improve their awareness to obtain support for their projects, participate in competitions, apply for awards and recognitions etc.
- Some institutions leverage IEEE for the conduct of conferences, publishing papers in IEEE-Xplore and thus increase their visibility in international space
- Many institutions start student branches and even student chapters of various societies with a lot of enthusiasm but are unable to sustain them year after year due to various reasons
- There is a vast difference in awareness of IEEE and the benefits of its membership among members of all categories inspite of all the information being available online

Most longstanding members of IEEE continue to be members because not only do they see some immediate benefits but over a period, with increased awareness about IEEE and its vast resources they see new opportunities to learn, network and enhance their knowledge, skills and competencies.

In its more than 125 yearlong history, continued membership of IEEE has helped countless professionals in the world to seamlessly and successfully navigate their career from education to jobs and finally to a very satisfying post retirement engagement as well.

The world today is a very dynamic place for each of us particularly in our professional life. From college we move to either a job or higher education. From higher education we move to a job or even higher education. We are constantly changing our jobs, institutions and roles. With this kind of dynamism in our professional life, we need some support in the form of a professional network on which we can rely to help us make these changes successfully. Being a member of IEEE year after year provides you with the consistent professional nourishment and networking that can make our volatile professional life easy to manage. Imagine your life without a home and a family!

Start your membership of IEEE in the first year of college and continue it all your life. IEEE is your 'home' in your professional career.

Come home to IEEE!

Yours voluntarily  
ts.rangarajan@gmail.com

## From The Editor's Desk

**H.R. Mohan**

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Blog: <http://infoforuse.blogspot.com>



Dear Friends,

Our chairman, in his message has shared his perceptions on IEEE membership in our Section. While one can benefit in multiple ways from the IEEE membership, only few are leveraging it. Computing & Communications have become integral part of our life. The membership in both these societies would help our students. We urge them to take advantage of concessional and package offer in the membership in sister societies. Also, by becoming a member from mid Aug 2012, one can enjoy the membership till Dec 2013.

LINK congratulates Mr. N. Murali, execom member of IEEE Madras Section for having selected as a winner of Top 100 CISO awards 2012.

The response to the "Drupal Training Programme" being organized by GINI along with the Drupal Developer Community, IEEE Madras Section, IEEE CS, IEEE PCS & IEEE GOLD at VIT to empower the students in developing interactive websites using the open source CMS Drupal has been overwhelming. Their another programme on "GINIMAS Placement Training Programme" was attended by a record no. of participants – 160. Congrats to the team behind these programmes.

From this month, LINK proposes to go electronic in phased manner. The hard copies of LINK will be made available only to the professional members. Each student branch will be provided with five copies of the print edition of LINK. As a large no. of print copies of LINK mailed to students are not delivered/used, we encourage the student members to download the pdf version of the LINK from the Section web portal. This initiative, we hope will help us in our finances to support other new activities.

In this issue, we have published the reports on events organized by the following institutions:

- K. S. Rangasamy College of Technology
- Knowledge Institute of Technology
- Infant Jesus College of Engineering and Technology
- Sri Muthukumaran Institute of Technology
- Aarupadai Veedu Institute of Technology

The other items published in the LINK include: brief report on the technical meeting on "Trends in Networks and Distributed Systems", activities of IEEE GINI, report on the Faculty Development Programme on "Soft Computing Techniques in Electrical Sciences – Recent Perspective", short articles on "Graphene Devices" & "Lighting/ Illumination", "Self Development" dealing with tips for individual development.

We draw the attention of our readers to the announcements from IEEE CS & IEEE PCS on the "ManageMySkill Initiatives", Briefings session on "Higher Studies in IT at ISS, NUS, Singapore", "MGA Positions", Free e-Book from IEEE USA and the advance info on the forthcoming meeting on "Personality Profiling using Transactional Analysis".

## FDP on “Soft Computing Techniques in Electrical Sciences – Recent Perspective”



The IEEE Madras Section in association with the Dept. of Electrical and Electronics Engineering, Akshaya College of Engineering and Technology (ACET), Coimbatore organized a Faculty Development Programme (FDP) on the topic “Soft Computing Techniques in Electrical Sciences – Recent Perspective” on 30<sup>th</sup> June and 1<sup>st</sup> July 2012. This was the 22<sup>nd</sup> FDP in a series of programs aimed at improving the quality of teaching in Engineering Colleges in Tamilnadu.

This FDP was attended by 28 faculty members of colleges and universities from all over Tamilnadu. The co-ordinators of the program were Dr.N.Kumarappan, Professor, Annamalai University and IEEE Madras Section Educational Activity Chair and Prof. S. Elangovan, Associate Professor of EEE, IEEE

SB Counselor, ACET, Coimbatore and Vice Chair, IEEE MAS GOLD.

At the inaugural session on the first day, Prof. S. Elangovan welcomed the gathering and Dr. N. Kumarappan delivered the inaugural address, Dr. K. Thanushkodi, Director, ACET presided over the function and delivered the presidential address. Prof. J. Jaya, Professor, Dept. of ECE, ACET delivered the vote of thanks.

This FDP was conducted in five sessions. In the first session on “Computational Intelligent Techniques in Power System Engineering” by Dr. N. Kumarappan, he explained the various soft computing techniques of Particle Swarm Optimization, Neuro Fuzzy Controller and their applications in the area of power system engineering. In the session by Dr. T. Aruldoss Albert Victorie, Professor, Department of EEE,

Anna University of Technology, Coimbatore, he discussed on “Usage of Particle Swarm Optimization (PSO) in Power System Engineering and Power Electronics”. He also gave hands-on training in PSO technique using MATLAB/Simulink simulation software.

On the second day, in the session on “Genetic Algorithm” presented by Dr. T. Thiyagarajan, Immediate Past Chair, IEEE Madras Section, he explained in detail about these genetic engineering fields and the new algorithm proposals. A session on “Hybrid Intelligent Technique” was presented by Dr. N. Kumarappan.

The final session was on “Introduction of ACO Techniques” and was presented by Dr. P. Ganeshkumar, Professor, Anna University of Technology, Coimbatore.

The program ended with a valedictory function in which Dr. T. Thiyagarajan, Immediate Past Chair, IEEE Madras Section delivered the valedictory address and distributed the certificates of participation. The FDP which provided an excellent opportunity to the participants to listen to the experts and also to discuss basics and advanced topics with hands-on training in soft computing techniques using Matlab, received an excellent feedback.

*Report by: Dr N Kumarappan & Prof. S. Elangovan*

## IEEE GINI Madras Section

### Technical Tour 2012



A Technical tour to Neyveli Lignite Corporation (NLC) was organised on June 25<sup>th</sup> 2012. The Tour saw the participation from colleges across Chennai comprising Sri Muthukumaran Institute Of Technology, Jeppiaar Engineering College, Asan Memorial College, Sri Venkateshwara College Of Engineering and Thangavelu Engineering College.

The Industrial Visit covered the coal mines, power generating plant and control room. The participants were explained about mechanisms which centred on the Digital Control

Systems and other topics such as boilers, condensers, cooling towers, super heaters, forced and induced draught fans pump stations which constitute the main components of a steam power plant. Few pointers on accessories, boiler mountings and Hydrogen pressure maintenance inside the turbine were also explained. The participants also learnt about the transmission

and distribution of electric power to substations and the working mechanisms of isolators, panel switches, circuit breakers, etc.,

*Reported By: Pooja Vijayaraj, pooja.vijayaraj@ieee.org*

### Back 2 Basics: Online Electronics Quiz

As an initiative to move the online quiz towards the technical domain, IEEE GINI Madras Section conducted an Online Electronic Quiz on 28<sup>th</sup> June 2012. The test included 30 basic electronic questions to refresh the basics of engineering among students. Around 50 students from various sections in India participated in the Test. The contribution of a team of GINI Volunteers comprising Nivas Ravichandran, Salma Saithoon, Apoorva P Naidu, Fathima Hathoon Nargis, Ajay Daniel, Prasanth Emy, Joseph Peter, Naresh Kumar and Pragnya Srinivasan in organizing the event turned out to be a huge success. The effort was appreciated by all and everyone provided a positive feedback for the event. The team will conduct a series of tests in all fields of engineering to enhance the concepts.

*Report by: Nivas Ravichandran*

## IEEE GINI Madras Section Leadership Meet '12

**“Do what you can, with what you have, where you are.”** This is what IEEE GINI Madras Section has always followed and achieved yet another milestone on 30<sup>th</sup> June 2012 wherein the Leadership Meet was organised at RMK Engineering College in order to encourage and train the enthusiastic volunteers to lead their Student Branches.

The event commenced with the welcome address delivered by Dr. Erwin, Principal, RMK Engineering College. Our guests, Major V V Chandrasekaran, Secretary, IEEE Madras Section, Chairman, Student Activities Committee, Dr. Shivakumar, Branch Counselor, RMK Engineering College, Mr. Barnabas Muthu, Mentor, IEEE GINI Madras GOLD Execom, IEEE Madras Section, Mr. Anand B, Coordinator, IEEE GINI Madras, Mr. R. Arjun Pillai, IEEE R10 GINI Coordinator and Mr. Hari Krishnan M M, Coordinator, IEEE GINI Madras, IEEE GINI Madras Section inaugurated the ceremony by lighting the lamp. Major V V Chandrasekaran released the GINI MAS Constitution and addressed the gathering and emphasised on the importance of leadership and conveyed the qualities of a leader.



After the ice- breaking session, Mr. Arjun briefed about a Student Branch (SB), the smallest entity in IEEE, roles of SB Officers in successfully running a SB. Mr. Barnabas Muthu gave an introduction to GINI (Global Integrated Network of IEEE) and mentioned the change brought about by GINI in volunteerism and enlightenment.

The post lunch session comprised of sessions on expansion of GINI and its constitution, division of HUBs. The Hubs and respective Hub leaders were also announced during the session. Mr. Anand explained about SB reporting, preparing event proposals, budgeting, applying for funds. He also listed out the various awards at different levels and the eligibility criteria for applying for those awards. Mr. Hari Krishnan, elaborated on the key operative areas of GINI, the SB Networking, Industrial

Relations and Collaboration Platform. He also mentioned the benefits attributed by GINI.

There were two brainstorming sessions – “Resolving the various SB issues (faced by SB Execom)” and “Panning of an event in the near future”. Towards the end, IEEE GINI Madras Section activities since 2008 were highlighted by Nivas R. Following which each student branch were allowed to present their annual report. The GINI representatives then responded to the queries of the upcoming leaders.

This annual Leadership Meet 2012 thus focussed on training the next set of office bearers. The positive feedback proved to be the success of the entire event.

*Report by: Apoorva P Naidu,  
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## Technical Meeting on “Trends in Networks and Distributed Systems”



Dr. Krishnaiyan Thulasiraman, Hitachi Chair in Computer Science, University of Oklahoma, Norman, USA and Distinguished Alumnus of IIT Madras & Fellow of IEEE delivered a technical presentation on “Trends in Networks and Distributed Systems: Graph Models and Algorithms” on 12<sup>th</sup> Jul 2012 at a joint meeting organized by the IEEE Madras Section, IEEE Computer Society, Madras Chapter, IEEE Communications Society, Madras Chapter, IIT Madras Alumni Association, Chennai Chapter and Computer Society of India, Chennai Chapter. Mr. H.R. Mohan, Chairman, IEEE CS welcomed the gathering and stated the importance of



algorithms in computing projects. Dr. P. Sakthivel, Past Chairman, CSI Chennai, introduced the distinguished speaker.

Dr. Thulasiraman, in his presentation said that most problems in the networks and distributed systems area can be modeled as optimization problems involving graphs. He added that though there is a wealth of knowledge available now on sophisticated techniques of algorithm design, real life problems are far more complex (computationally intractable) and cannot readily take advantage of these techniques. So, in practice such problems are solved using as building blocks certain specialized algorithms such as the shortest path

and max flow algorithms. This calls for approaches that bridge theory and practice based on engineering intuition. The speaker, discussed on some recent advances, particularly those related to his group’s research in fault diagnosis, testing and network survivability. Specifically, he elaborated on QoS routing, Cross Layer Survivability in IP over WDM Optical Networks and Topology Abstraction Service for Virtual Private Networks.

At the end of the presentation, Major General A. Balasubrahmanian, Fellow of CSI & and Dr. C.R. Sasi, Past Chairman of IEEE Madras Section, presented mementos to the speaker.

## K. S. Rangasamy College of Technology

### National Level Technical Symposium



The national level technical symposium COM $\mu$ NIX'12 was conducted by the Dept. of ECE and IEEE SB on 10<sup>th</sup> Feb 2012. Nearly 600 students came from different colleges in Tamil Nadu participated. At the inaugural, Mr. G. Prakash, Staff coordinator, Creative Association For Adducing Communication Engineers, welcomed the gathering. After the addresses by Dr. K. B.Jayanthi, HoD and Dr. K. Duraisamy, Prof. & Dean, Dr. K.

Thyagarajah, principal, delivered the inaugural/principal address. Following this, the souvenir was released by the HoD.

The main events at the symposium were: paper presentation, project presentation, code debugging. All of them were aimed at improving the technical knowledge and communication skills of the participants. Several fun events such as LAN gaming and treasure hunt and technical quiz were also organized apart from a multimedia presentation which exhibited the creativity of the participants. Prizes to the winners and certificates to all were presented at the valedictory function.

### Guest Lecture on “IEEE Membership Benefits”

A guest lecture on “IEEE Membership Benefits” was delivered on 18<sup>th</sup> Feb 2012 by



Dr.N.Kumarappan, Professor, Electrical Engineering, Annamalai University. He provided an overview of the IEEE organization and highlighted the advantages of being an IEEE member. The lecture was attended by faculty members and PG students. The lecture was highly interactive and with questions raised by the participants and clarified as the lecture progressed.

Report by: Mr. C. Rajasekaran,  
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## Knowledge Institute of Technology

### Workshop on MATLAB



A one day workshop on ‘MATLAB and its applications’ was held on 20<sup>th</sup> June 2012. About 125 students of pre-final year ECE department actively participated in the workshop. Mr. Mathukiran, Application Engineer, Corel Technologies Ltd. Bangalore was the chief guest. He was introduced by Dr. N. Santhiyakumari, SB counselor. The resource person explained about the importance of

MATLAB tasks that could be performed through example program and explained the basic commands. He also explained on how to work with SIMULINK software and highlighted how MATLAB is efficient from other programming environment available in the market.

Report by: Ms. K. Sahithiya,  
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### Workshop on “How to do a Project”



The SB of KIOT organized a one day workshop on ‘How to do a Project’ on 30<sup>th</sup> June 2012. The workshop started with formal inauguration by the SB counselor Dr. N. Santhiyakumari and felicitation by Dr. K. Visagavel, Vice Principal. The speaker, Mr. M. Rajamanikam, in his address, explained on various steps involved in carrying out a project and the different project methodologies. He further explained on the important features in selecting a project and the basic needs for the project. He also explained about the recent innovations from which how projects can be undertaken and also about the real time projects. This workshop ended as the great inspiration and initiation for the students to do their projects.

Report by: Ms.K.Kavipriya  
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## Infant Jesus College of Engineering and Technology

### IEEE Project Expo



A project expo was organized on 29<sup>th</sup> May 2012. After the welcome address by Mr. T. D. Subash, SB counselor. the Chief Guest

Prof. C. Arunachalaperumal, SA Engineering College, Chennai inaugurated the ecpo and portrayed the importance of conducting project expos and explicated how to present projects. Nearly 150 IEEE and non IEEE members participated in this expo. In this expo, 26 projects from different areas such as embedded systems, networking, biomedical, vlsi and wireless communication were demonstrated and included few final year students projects also. Best three projects were selected prizes were given by the chief guest.

Report by T. D. Subash,  
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### Section Membership as on 15th July 2012

Life Fellow	-	2
Fellow	-	2
Life Senior	-	7
Senior Member	-	105
Life Member	-	4
Member	-	1875
Associate	-	78
Affiliate	-	23
Graduate Student Member	-	737
Student Member	-	6236
<b>Total</b>	-	<b>9069</b>

## Sri Muthukumaran Institute of Technology

### Tech Expo 2012

The Tech Expo 2012 organized on 28<sup>th</sup> Jan 2012 was inaugurated by Dr. P. Vijayan, Director of Indian Maritime University. Around 100 Projects were exhibited by the enthusiastic SMIT students. Projects dealing with Robotics, Technical Games, Alcohol Detector, Security Systems and other projects such as the Working Models of Steam, Hydel Power Plants were exhibited. These were seen by the school students of the nearby schools numbered around 1000. Explanations and demos were presented to the students. Many school students impressed by the projects and kindled their interest to take up Engineering after their schooling.

### Environment Day Celebration



World Environment Day: Slogan Competition

The IEEE SB of SMIT celebrated world environment day for a period of 5 days from June 5<sup>th</sup> to June 10<sup>th</sup> 2012. Various online events were conducted to make the technology bound students to come out with ideas and slogans to

make the planet earth green and to lead a green lifestyle. Some of the events include: Slogan Writing competition; Environmental Quiz; and Green Ideas to lead a green lifestyle. Over 50 students participated in these events and made the celebrations a grand success. The Winner's Slogan for a better tomorrow is:

**“Be part of the solution, rather than being a part of destruction, do or die else do before you die, save our planet, save the world... Reserve, Restore, Repair, Reuse RESOURCES.”**

The event created awareness and interest among the students to help compensate for the harm caused by our own actions and deeds.

Report by: Pradeep. G.  
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## Aarupadai Veedu Institute of Technology

### Webinar- Exploring MS Visual Studio 2010 IDE

IEEE CS Branch Chapter - AVIT and Association of IT Engineers, Dept of IT, AVIT organized a one day webinar on “Exploring MS Visual Studio 2010 IDE” on 2<sup>nd</sup> Jul 2012. Mr. Ramakrishnan RS, Senior Associate, Microsoft Track, Education & Research, Chennai, briefed the importance of Visual Studio IDE, C# and Advanced JAVA.

### Webinar on Infosys Co-teach- Elective Initiative Launch

IEEE CS Branch Chapter - AVIT and Association of IT Engineers, Dept of IT, AVIT organized a one day webinar on “Infosys Co-teach Elective Initiative Launch” on 3<sup>rd</sup> Jul 2012. Mr. Roy Antony Arnold, Infosys Campus Connect, SPOC, Chennai, briefed the importance of launching the electives and gave the introduction to Business

Intelligence, Enterprise Application, Business English and way of teaching the above electives.

At both the programmes, Dr. A. Anthony Iruddharaj, Dean (IT), Advisor, IEEE – CS Branch Chapter welcomed the gathering and Mrs. R. Kalavathy, Vice-Principal, AVIT delivered the presidential Address. Faculty members and students from the Dept. of IT participated and benefited. Mr. C. Karthikeyan, HoD/IT proposed the Vote of Thanks.

## Lighting / Illumination

**Dr. S. Thiruvengadam**

Professor of Eminence, Dept of EEE  
Valliammai Engineering College

**Introduction:** Effective lighting / illumination determines the quality of our life and work. It has also impact on our nation's economy. About 20 to 30% of our expenditure on electricity is on illumination. 30% to 60% savings on this account can be achieved by adopting modern lighting technology while enhancing quality of light.

**Illumination:** A lumen is a measurement of light output from a lamp. Eg: 100W incandescent lamp produces about 1750 lumens.

**Types of lighting systems:** There are four basic types of lighting incandescent, fluorescent, high intensity discharge and low pressure sodium.

- **Incandescent lamps:** Least expensive to buy but the most expensive to operate and is slowly being withdrawn from use in different countries.

- **Fluorescent lamps:** In fluorescent lamp a very small amount of mercury is mixed with inert gases to conduct the electrical current. This causes the phosphor coating on the glass tube to emit light.
- **Compact fluorescent lamps:** Compact fluorescent lamps come in various shapes. They consume more than one third as much energy as incandescent lamps. They can be installed in regular incandescent lamp fixtures.
- **High intensity discharge and low pressure sodium lamps:** These lamps are normally used for special purposes like street lighting, auditorium lighting, highway lighting and security lighting in yards and workshops. LP sodium lamps work somewhat like fluorescent lamps. They require 10 minutes to start and have to cool before restart. They are normally used for applications when they are on for a long time. HID lamps have 2 tungsten electrodes in a gas filled quartz or ceramic tube. HIDs use an arc to produce intense light. They require ballasts and are normally used for outdoor lighting.

**Energy efficiency and lighting:** An average household dedicates 5% to 10% of its energy budget to lighting. Saving lighting energy requires either reducing electricity consumed by the light source or reducing the length of time the light source is on. This can be achieved by

1. Lowering Wattage- involves replacing lamps and entire fixtures
2. Reducing the light sources on time that means improving light controls and educating users to turn off lights that are not needed.
3. Using day lighting, which reduces energy consumption by replacing electric light with natural light.
4. Performing regular maintenance of lighting fixtures.
5. Substituting one lamp for another

**Conclusion:** By optimizing energy efficiency and lighting quality, workplace or home can be made more comfortable and efficient.

## Graphene Devices

V. P. Sampath

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Graphene devices have grown by leaps and bounds over the past few years, and they are probably the best bet to eventually replace silicon. Graphene, single sheets of graphitic carbon is a single atom thick and has remarkably high electron mobilities (100 times greater than silicon), making it ideally suited to atomic-scale, high-speed operation. Graphene based processor can execute 100 billion cycles per second (100GHz), almost four times the speed of previous experimental graphene chips. If commercialized, such graphene processors could be the basis of superior signal processing componentry, improving the fidelity of audio and video recording, radar processing and medical imaging.

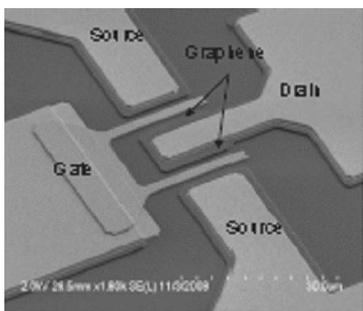


Fig1: A SEM photograph of graphene FET



Fig2: 75mm graphene wafer.

Graphene a promising material for high-speed or high-frequency electronic components. This prototype processor was created on a 2-inch wafer, though in principle it could be done on even larger wafers, which should bring the production costs down. Graphene is produced by heating a silicon carbide wafer, allowing the silicon to evaporate. Graphene has been that it is very sensitive to the environment. During the fabrication process, an oxide layer is deposited over the graphene to form the gate insulator. Typically, this deposition degrades the graphene’s electron mobility, due to defects in the oxide that scatter electrons in the graphene. The new approach which minimize the damage by separating the graphene from the oxide with a very thin polymer layer has been instrumental in allowing the researchers to almost quadruple the frequency of graphene chips. Graphene processors are capable of frequencies around 26GHz. By comparison, silicon-based transistors of the same gate length (240 nanometers) have only been able to scale up to a clock rate of 40 GHz or so. It also sets the stage for commercial production.

High-quality graphene can be produced on a wafer scale, and graphene transistors can be fabricated with those processes used in the semiconductor industries. One major roadblock is that graphene does not work easily with discrete electronic signals because graphene is a zero band gap semiconductor, meaning there is no energy difference between its conductive and nonconductive states, transistors made of the semiconductor cannot be turned on and off. In contrast, silicon has a bandage of one electron volt, making it good for processing discrete digital signals. Instead, graphene is better suited for making analog transistors, such as signal processors and amplifiers.

Today, such circuitry is largely made from GaAs though GaAs offers nowhere near the same electron mobility. Also, graphene’s electrical properties can be controlled, switching it among conducting, semiconducting and electrically insulating forms. Graphene-based field effect transistors (FETs) that may operate at much higher speeds (100GHz) than Si FETs. Graphene layers were thermally grown on two-inch SiC wafers and the FETs were formed using standard Si fabrication techniques with HfO<sub>2</sub> as the gate oxide. That’s a rather significant point—the researchers actually created an entire wafer of these devices. High frequency operation, colloquially referred to as the speed of the transistors, was the key property examined in the paper. As operating frequency increases, electrons have less time to respond to the electrical fields that drive transistors, which will eventually cause the transistor to fail because the electrons simply can’t conduct across the material fast enough.

## Self Development

### The Ten Keys to Success

1. Curiosity: being eager to know and learn; always showing interest and giving special attention to the less obvious; always being the person who says, “I want to know more about . . .”
2. Decisiveness: arriving at a final conclusion or making a choice and taking action: making decisions with determination, even when you don’t have all of the information you think you need.
3. Perseverance: having passion, energy, focus, and the desire to get results. Motivation, persistence, and hard work are all aspects of drive.
4. Empathy: demonstrating caring and understanding of someone else’s situation, feelings, and motives; always thinking about what it’s like to walk in someone else’s shoes.
5. Flexibility: being capable of change; responding positively to change; being pliable, adaptable, nonrigid, and able to deal with ambiguity.
6. Follow-through: always closing the loop and taking the next step; honoring your word by doing what you said you would do and being professional in your communication and approach.
7. Humor: viewing yourself and the world with enjoyment; not taking life or yourself too seriously; being amusing, amused, and, at times, even comical.
8. Intelligence: thinking and working smartly and cleverly; being sharp in your dealings; “not reinventing the wheel”; planning before acting; working efficiently and focusing on quality over quantity. (Important note: This is different from IQ, the common abbreviation for intelligence quotient.)
9. Optimism: expecting the best possible outcome and dwelling on the most hopeful or positive aspects of a situation;

subscribing to the belief that “the glass is half full” rather than “half empty.”

10. Respect: remembering that it’s just as easy to be nice; protecting another person’s self-esteem; treating others in a considerate and courteous manner.

### How to Get Twice as Much Done in Half as Much Time

There are a lot of books that will tell you how to use charts and schedules to manage your time more effectively. Go get one of them, if you must, but first let me tell you how to get much more done in much less time than it takes to read a book:

- Whenever possible, use quick conversations instead of formal meetings.
- Avoid business lunches. Too often they are more lunch than business.
- Hire the best workers you can find and delegate as much work to them as you decently can.

- Don't just close your door when you're reprimanding somebody—close it for several hours every day to establish a pattern and use the time to work like mad when you have to.
- Answer letters and memos by writing an answer on the original and returning it rather than drafting a new memo. Keep a photocopy for your files.
- Get to the office early when you've got extra work to do. You'll get much more done before everyone arrives than you ever will by staying late.
- Set firm time limits on meetings. When people realize you *really* mean to end one-hour meetings after one hour, they'll hustle to cover their points quickly.
- Decide what to do with any document *the moment* you put your hand on it. Move it to an appropriate file or give it to somebody else to act upon.
- Have somebody else sort your mail. It sounds like a small idea, but setting priorities and having somebody else sort for you can free up more than *two hours* a week for more important projects.

*Exarct from "The Black Book of Executive Politics"*

**Dale Carnegie's Principles**

*Six Ways to Win Friends*

1. Become genuinely interested in other people.
2. Smile.
3. Remember that a person's Name is to him/her the sweetest and most important sound in any language.

4. Be a good listener. Encourage others to talk about themselves.
5. Talk in the terms of the other person's interest.
6. Make the other person feel important and do it sincerely.

*Twelve Ways to Win People to Your Way of Thinking*

1. Avoid arguments.
2. Show respect for the other person's opinions. Never tell someone they are wrong.
3. If you're wrong, admit it quickly and emphatically.
4. Begin in a friendly way.
5. Start with questions the other person will answer yes to.
6. Let the other person do the talking.
7. Let the other person feel the idea is his/hers.
8. Try honestly to see things from the other person's point of view.
9. Sympathize with the other person.
10. Appeal to noble motives.
11. Dramatize your ideas.
12. Throw down a challenge.

*Be a Leader: How to Change People Without Giving Offense*

1. Begin with praise and honest appreciation.
2. Call attention to other people's mistakes indirectly.
3. Talk about your own mistakes first.
4. Ask questions instead of directly giving orders.
5. Let the other person save face.

6. Praise every improvement.
7. Give them a fine reputation to live up to.
8. Encourage others by making their faults seem easy to correct.
9. Make the other person happy about doing what you suggest.

**Ten Traits of a Successful Networker**

1. Responding to referrals quickly
2. Keeping a consistently positive attitude that people like
3. Being enthusiastic and motivated
4. Earning the trust of clients and contacts by cultivating a reputation for honesty and straight dealing
5. Listening well—an invaluable skill for developing strong relationships with people and gathering information
6. Being committed to networking around the clock
7. Expressing gratitude freely and making a good impression that is likely to make people remember you in the future
8. Regularly helping people, whether moving their office furniture or sending them information
9. Always being sincere, paying attention, and making eye contact
10. Staying dedicated to networking

*Adopted from The 29% Solution: 52 Weekly Networking Success Strategies by Ivan R. Misner, PhD., and Michelle R. Donovan*

IEEE Madras Section  
IEEE Computer Society, Madras  
IEEE Professional Communication Society,  
Madras  
Computer Society of India, Chennai  
IIT Madras Alumni Association, Chennai

Cordially invite you for the  
Presentation on  
**“Personality Profiling Using  
Transactional Analysis Model”**  
by  
Mr. P. Vijayan  
Corporate Trainer in  
Organizational Change and  
Personal Improvement,  
Transactional Analysis (TA) &  
Neuro Linguistic Programming (NLP)

On 6<sup>th</sup> Aug 2012 at  
Anna University Alumni Centre  
Formal invite to follow

**MGA Positions**

The IEEE Member and Geographic Activities (MGA) Nominations and Appointments (N&A) Committee is soliciting nominations for 2013 MGA Committee Member and Liaison positions. For a complete list of available MGA positions, the MGA online nomination form, and information on the MGA Nominations and Appointments, pl. visit <http://goo.gl/LrQmm>

Each IEEE Region is encouraged to submit nominations to help ensure that MGA is globally balanced. Self-nominations are encouraged. The deadline to submit nominations is 1 August 2012.

**Free e-book**

As a special benefit to IEEE members in July 2012, IEEE-USA is offering a free e-book, “Personal Positioning for Engineers.” From this book, you will learn about employment options available to engineers and how to position yourself for success by choosing the right ones.

The author, Paul Kostek, writes that, “The key to succeeding is to understand yourself, how you respond to change, and what level of risk you can deal with.” Access the book till 31<sup>st</sup> Jul at <http://goo.gl/RsN5j>

## Higher Studies in IT at ISS, NUS, Singapore

Institute of Systems Science (ISS) at National University of Singapore, offers the following two graduate programmes which focus on the practical aspects of IT.

The Master of Technology programme which was started in 1996, specialises in Software Engineering and Knowledge Engineering and emphasises state-of-the-practice technology and internationally recognised methodologies. It provides IT professionals the opportunity to upgrade their skills while pursuing their careers.

The Graduate Diploma in Systems Analysis programme was initiated in 1981 and offers university graduates the opportunity to move into the rapidly advancing field of IT.

These programmes are well recognized and have good job potential. Concessional fee is offered with service obligation at Singapore based organization.

Briefings on these programmes are being planned at different centres with a provision for spot admissions based on a test and interview.

Dr. Venkat Ramanathan, Evangelist, Advanced Technology Applications Practice, Institute of Systems Science of the National University of Singapore who has consented to deliver guest lectures at the invitation of IEEE Computer Society Madras Chapter will be available for guidance and briefing at Chennai on 25<sup>th</sup> Aug 2012. The venue will be Hotel Benz Park, 62, Thirumalai Pillai Road, T.Nagar, Chennai - 600 017.

For more information and registration, pl. visit <http://goo.gl/goU6J> or contact email: [isspostgrad@nus.edu.sg](mailto:isspostgrad@nus.edu.sg)

## ManageMySkill Initiatives

IEEE CS & IEEE PCS Madras Chapter are exploring the possibility of offering "ManageMySkill" training to the students of various branches of Engineering, Management and MCA courses across different years based on an initial assessment of their skill sets.

This initiative will broadly address and strive to improve the academic, cognitive and enabling skills, career management skills, employability/work/job skills and will be offered on a short / long term basis depending on the need and at an affordable cost.

This will be a collaborative initiative of the IEEE Society Chapters (CS & PCS), VictoryMind (a Chennai based employability and soft skill training organization with whom we had organized in-house orientation programmes in 2011 at different colleges across TN) and the hosting Institutions. The hosting institutions will take an active role and provide certain facilities and coordinate with the setting up of a center dedicated for this initiatives.

For our announcement in Jun 2012, we have received some responses. Since most of the colleges have been re-opened in Jul 2012, we are publishing this announcement once again.

Principals / Placement Officers / SB counselors / IEEE SB office bearers (not individual student members) of the institutions interested in this initiative may please write to the chairman, IEEE CS & PCS at [harmohan.ieee@gmail.com](mailto:harmohan.ieee@gmail.com). Based on the response and commitment from the hosting institutions, further details will be communicated.

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[www.ewh.ieee.org/r10/madras](http://www.ewh.ieee.org/r10/madras)

Posted On : 24<sup>th</sup> July 2012

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