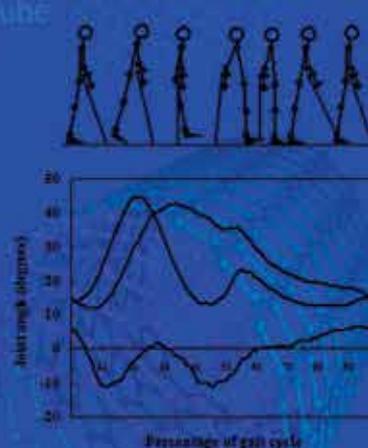


$$f(x) = \frac{(V_{max})^2 - (V_{min})^2}{(V_{max})^2 + (V_{min})^2} \sum_{n=1}^{\infty} \frac{\sin(n\pi x)}{n}$$
$$\frac{1}{1+n^2} < (1 + \frac{1}{n^2})^{n^2}$$
$$f(x) = \int_0^1 f(x) dx = \int_0^1 \sum_{n=1}^{\infty} \frac{\sin(n\pi x)}{n} dx$$
$$f(x) = \frac{1}{2} + \frac{1}{\pi} \sum_{n=1}^{\infty} \frac{\sin(n\pi x)}{n}$$
$$f(x) = \frac{1}{2} + C \sum_{n=1}^{\infty} \frac{\sin(n\pi x)}{n}$$

(0,10) nanotube  
[24, 24]



$$\left(\frac{1}{C_{1s}}\right) I_1 - \frac{1}{C_{1s}} I_2 + \dots - \frac{1}{C_{2s}} I_6 + C_{1r}$$
$$+ R_2 \left(\frac{1}{C_{2s}}\right) I_2 - \frac{1}{C_{2s}} I_3 + 0 - \frac{1}{C_{2s}} I_6 + \frac{1}{C_{3s}} I_6 -$$
$$+ \left(\frac{1}{C_{3s}} + R_3\right) I_3 - \frac{1}{C_{3s}} I_4 + \frac{1}{C_{2s}} I_6 + \frac{1}{C_{3s}} I_6 -$$
$$0 + 0 - \frac{1}{C_{3s}} I_3 + \left(\frac{1}{C_{3s}} + R_4\right) I_4 + 0 - \frac{1}{C_{2s}}$$
$$\frac{1}{C_{2s}} I_3 + 0 + \left(\frac{1}{C_{2s}} + R_5\right) I_5 + \frac{1}{C_{2s}}$$

# October 2014

# Contents

**VIBRATIONS**

available online at

[www.ssn.edu.in/vibrations.html](http://www.ssn.edu.in/vibrations.html)

## Editorial Board:

Prof. S. Salivahanan  
Principal

Prof. B. Srinivasan  
Director - SoMCA

Prof. P. Ramasamy  
Dean - Research

Prof. Dr. Sunita Nair  
Dept. of Chemistry

Prof. Dr. S. Thiruvenkataswami  
Dept. of English

Dr. Divya John  
Dept. of English

3 From the President's Desk  
From the Principal's Desk

4 Publications in Journals

6 Golden Peacock Awards  
Supra Vehicle at SSN

7 Chaos in the Traffic Jam  
Falling of Raindrops  
Transience  
War

8-9 Photo Gallery

10 Lights Out Please  
SSN MUN 2014

11 Things You Can do to Improve Your English  
Despair

12 Arjuna Award  
SSN Trophy

13 Tamil Section

14 Teachers Day  
Symposium 2014

## “From the President’s Desk...”

The first quarter of the academic year is a time for students and the faculty to retrospect and formulate a plan of action for the year. As you all know, SSN stands for excellent teaching, quality research and a wonderful place for the overall development of the students. Extracurricular and Co curricular activities are given equal importance. Sports and Games, needless to point out, help in shaping the physical, as well as, the mental well being of people. I am happy that SSN strives to achieve excellence in every one of these aspects.

I appeal to the students to make the best use of all the facilities available on the campus for individual growth and development. The management is ready to encourage any constructive activity from the students for their overall improvement.

We have had another batch of students amidst us in the first year. I am happy that the orientation program held from 30th July to 1st August provided a good opportunity for the new entrants to become familiar to the people, places and facilities on the campus as well as develop a positive orientation to their study in the next four years.

Ms. Kala Vijayakumar

SSN provides training for students in Languages and Personality development and the students should make the best use of the same. Tailor made training, specific to the varied sections of the student community, is offered to make it meaningful and purposeful. SSN offers training in English and foreign languages (Japanese and German). It also offers specialised training for students who join the college from the rural background with a view to enabling them cope with the new environment in which they have chosen to study. The needs of the students from lateral entry and Tamil Medium are also addressed.

I am happy that the symposiums by the different departments were conducted successfully this year as well and have attracted large number of students. I am happy students have meticulously organised events of such a grand scale all by themselves. I am sure, this has given them managerial skills and other soft skills needed for success. I am sure these symposiums also helped in inculcating a spirit of research which is a vital need of the hour.

I am proud of our alumni Mr. R. Ashwin and Ms. Anaka who received the Arjuna Award this year.

## “From the Principal’s Desk...”

Time and again we need to remind ourselves of stepping up our classroom practices and research output. I am happy that research output in terms of number of papers published, conferences conducted and other related activities, during this quarter, are quite impressive. This period has also witnessed good number of extracurricular and sports activities. I would like to appeal to the faculty to step up their academic and research activities furthermore. This, in my opinion, is a need of the hour for the growth of the individual as well as the institute.

I would like to mention a few notable achievements. With immense pride, I place on record the achievement of A. Anaka, an alumnus of CSE Department, for receiving the Arjuna Award from the President of India for her accomplishments in squash.

Orientation program at SSN is an excellent attempt to initiate our new entrants at the graduate level into SSN. I am happy that the event held from 30th July to 1st August 2014 has been well received by the first year students as well as the parents.

Another customary and a laudable activity at SSN is the hosting of national level student technical symposiums solely funded by the management and organized by the students. This event provides an excellent platform for students from different parts of the country to showcase their talents. In addition, our students gain significant practice and training in all aspects of ‘event management’. I am happy this event has been going from strength to strength in terms of number of participants and events.

During the 1st and 2nd week of September 2014, the following symposiums were conducted: EUPRAXIA 2k14 by EEE, ORBITCE 2k14 by ECE, PARADIGM 2k14 by CSE, CONVERITA 2k14 by IT, SRISHTI 2k14 by BME, CRANKX 2k14 by MECH, CHEMICZNA 2k14 by Chemical, and KRACIVA 2k14 by Civil. It was an excellent platform for our senior students to show case their technical skills as well as skills involved in organising mega events.

SSN, in its traditional way of encouraging and motivating talent amongst teachers, recognized meritorious teaching by awarding prizes to the deserving faculty on 19 Sept 2014 as part of the teachers’ day celebrations. Thiru. Gana Sirsabesan, Tamil Scholar and Orator, was the Chief Guest on the occasion.

SSN Trophy, a sports extravaganza, was conducted for the 12th consecutive year on 26 and 27 August 2014. The Tournament, consists of 7 different events namely-Badminton, Basketball, Chess, Table Tennis, Cricket, Squash and Tennis

Dr. S. Salivahanan

for both men and women categories. SSN had 72 institutions with over 1200 students participating this year. Recognizing the importance of Sports in shaping one’s body and mind, SSN provides excellent encouragement and facilities for sports and games.

In addition to these notable events, various departments in the college have conducted several workshops and conferences during this quarter. Some of them are as follows:

The Department of EEE organized a two-day National Workshop on “Power Conversion for Smart Grids” on 18, 19 July 2014. A programme “INSPIRE” sponsored by DST, New Delhi, was organized at SSNCE during the fourth week of July 2014. About 150 Higher Secondary School students participated in this program. A “Peripheral Stem Cells Donation Awareness” program was conducted by Datri organization, Chennai, followed by a registration drive in the campus. More than 500 SSNites registered for the donation. This programme was organized by the Department of Biomedical Engineering along with YRC and NSS of SSN College of Engineering on 25, 26 Sept 2014.

Congratulations to Prof. V. Kamaraj and Dr. R. Ramaprabha, of EEE on obtaining the ‘IET CLN Diamond Salute Award 2014’ and ‘IET CLN Sir C.V. Raman Research Award 2014’ respectively, in the IET Chennai Network Achievements Awards 2014 function conducted by Institution of Engineers and Technology.

Lucas-TVS, Padi granted a sum of Rs. 50,000/- as sponsorship to the SUPRA MACH RACING Team of the Mechanical Department that participated in the SAEINDIA SUPRA event at MMRT, Chennai, from July 17th to 20th 2014. Congratulations to the Team!

As success envelops our staff and students, my message to some of you is that you need not panic if you are different from others. “Every unique skill and every unique talent has the potential to make you a superstar. Embrace your personality and unchain your inner strength. Don’t forget – the one thing that all successful people have in common is that they were different from others around them.” Everyone has a talent and so do you. All you have to do is to let it shine out. So, my dear staff and students, celebrate your difference and bring laurels to yourself, your institution, and your society.

## RESEARCH PUBLICATIONS IN JOURNALS

1. M.Venmathi and R.Ramaprabha, "Analysis of Photovoltaic Fed Partially Isolated Three-Port Full Bridge Converter with the Centralised Controller", *International Journal of Engineering and Technology (IJET)* (ISSN: 0975-4024), Vol. 6, No.3, pp. 1495-1506, Jun – July 2014.
2. R.Deepalaxmi and V. Rajini, "Gamma and electron beam irradiation effects on SiR-EPDM blends" *Journal of radiation Research and Applied Sciences (ELSEVIER)* Issue 7; pp.363-370, July 2014.
3. R.Seyezhai and D.Umarani, "Design and Simulation of Cascaded H- Bridge Quasi Z-source Multilevel Inverter for Photovoltaic Applications", *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering*, Vol.2, Issue 7, July 2014.
4. W.Margaret Amutha, Renugadevi and V.Rajini, "A Novel fused converter for hybrid power systems", *Advanced Materials Research* Vol. 984-985 pp .744-749, 2014.
5. V.Nithin, P.Sivapriya, K.Vigneshwar (IV Yr.EEE, B) and R.Seyezhai, "Calculation of Performance Parameters and Reliability Aspects of Phase Shifted Semi Bridgeless Interleaved Boost Converter", *International Journal of Scientific & Engineering Research*, Volume 5, Issue 6, June-2014.
6. W. Abhitha Memala and V. Rajini, "Virtual instrumentation based analysis of induction Motor", *Advanced Materials Research* Vol. 984-985, pp. 970-976, 2014.
7. Alsath, M.G.N. and Kanagasabai, M., "A Shared-Aperture Multiservice Antenna for Automotive Communications," *Antennas and Wireless Propagation Letters, IEEE*, vol.13, no., pp.1417,1420, July 2014.
8. V.S. Felix Enigo and V. Ramachandran, "Effective Management of High Rate Spatio-Temporal Queries in Wireless Sensor Networks", *Wireless Personal Communications, Springer*, Vol. 79(2), pp. 1111-1128, July 2014.
9. B. Bharathi and T. Nagarajan, "Speaker verification using speaker-specific-text", *WSEAS Transactions on Signal Processing*, E-ISSN: 2224-3488, Vol.10, pp. 320-330, July 2014.
10. S.Suresh Kumar, Veeraraghavan, Vimallesh and Sanjay Bharadwaj, "Mixed mode Stress Intensity Factor determination for single and multiple cracks in an aircraft wing", *Applied Mechanics and Materials*, Vol. 592-594, pp. 2528-2533, July 2014.
11. S. Suresh Kumar, Murugappan and Manikanda Balaji, "Numerical and Experimental Crashworthiness Determination of Aluminum Tube Sections", *Applied Mechanics and Materials*, Vol. 592-594, pp. 1130-1135, July 2014.
12. A.Manimaran, B.Praba and V. M. Chandrasekaran, "Regular Rough Monoid of idempotents", *International Journal of Applied Engineering and Research (IJAER)*, Vol.9, No. 16, pp.3469-3479, July 2014.
13. G.Deepa, B.Praba and V. M. Chandrasekaran, "Virus Spread in an Intuitionistic Fuzzy Network", *International Journal of Applied Engineering and Research (IJAER)*, Vol.9, No. 19, pp.5507-5515, July 2014.
14. E. Priya and Mallika Jainu, 'Study of Adverse Effects of Vildagliptin and Insulin Treatment in Diabetes Mellitus Patients' *Research journal of Recent Sciences* Vol3. pp. 1-8, July 2014.
15. Navathej Gobi, Arun Srinivas, B.Geethanjali and S.Pravin Kumar, "Computer-based Communication Aid using EEG for Paralytic Clients", *Disability, CBR & Inclusive Development* Vol 25. No 2 2014.
16. S.Malathy, and R.Ramaprabha, "Suitability of Asymmetrical Multilevel Inverters for Partial Shaded Photovoltaic Systems", *Applied Mechanics and Materials*, Vol. 622, pp. 173-179, 2014.
17. R. Ramaprabha, S. Ajay, G. Deepika and S. Maneesha (UG Students) "Implementation of an Active Battery Balancer using Fly-Back Transformer", *ARPN Journal of Engineering and Applied Sciences* (ISSN: 1819-6608), Vol. 9, No.8, pp. 1344-1347, August 2014.
18. R.Seyezhai and A. InbaRexy published a paper titled "Simulation Analysis and Implementation of Two - Phase Interleaved Boost Converter with Ripple Steering for Power Factor Correction", *Advanced Materials Research* Vols. 984-985, pp.1046-1056, July 2014.
19. R. Seyezhai, Sudarshan.V.J., Sunil Kumar M. and S.Venkat BramaVignash (Passed out UG Batch 2014), "Design And Analysis of Sub-Harmonic PWM Techniques for a Nine Level Modular Multilevel Inverter", *JETRB4, Journal of Engineering and Technology Research*, 2 (3), pp.58-65, 2014.
20. M.Tamilarasi and R.Seyezhai, " State Space Averaged Modeling and Power Loss Computations for Fuel Cell Powered Four-Phase Interleaved Boost Converter", *Advanced Materials Research* Vol. 984-985, pp. 1037-1045, 2014.
21. R.Sreemallika, and R.Seyezhai, "Investigation of Closed Loop current control strategies for Bridgeless Interleaved SEPIC Converter", *Electrical and Electronics Engineering: An International Journal (ELELIJ)* Vol 3, No 3, August 2014.
22. Kanchana Rajaram and Chitra Babu, Arun Adiththan, "Tx-FAITH: A Transactional Framework for Failure Tolerant Execution of Hierarchical Long-running Transactions in Business Applications", *Journal of Web Services Research (JWSR)*, IGI Global, August 2014
23. S.Karthika and S.Bose, 'Paralyzing Terrorist Network: Removing Pivot Actors and Predicting Second Leaders to curb Future Disaster', *Disaster Advances*, 7 (8), August 2014.

## RESEARCH PUBLICATIONS IN JOURNALS

24. I. Joe Louis Paul, S. Radha and J. Raja, "Through put and bit error rate analysis of Luby Transform codes with low and medium nodal degree distributions", *American Journal of Applied Sciences*, Vol. 11, No. 9, pp. 1584-1593, August 2014.
25. I. Joe Louis Paul, S. Radha and J. Raja, "Performance Analysis of Joint Degree Distribution (JDD) in Luby Transform Codes", *Journal of Computer Science*, 1552-6607, Vol. 11, No. 1, pp. 166-177, August 2014.
26. Poornima.S and S.Subramanian, "Unconstrained iris authentication through fusion of RGB channel information", *International journal of pattern recognition and artificial intelligence*, Vol.28, No.8, August 2014.
27. Rajkumar R "Performance of Self Compacting Concrete using Flyash and Msand.- An Experimental Study" *Journal of Civil Engineering and Environmental Technology*, Vol. 1, No.2, pp.65-67 August, 2014.
28. Yogesh Ravichandran and Mahalingam Balasubramanian "Effect of Processed Fly Ash on Cement Mortar for Standard Fine and Normal Sand" *Journal of Civil Engineering and Environmental Technology*, Volume 1, Number 1, pp. 1-4, August, 2014.
29. B.Praba, V.M. Chandrsekaran and G.Deepa, "Energy of an Intuitionistic Fuzzy Graph", *Italian Journal of Pure and Applied Mathematics*, Vol.32, pp.431-444, August 2014.
30. C. Kalaivani and R. Roopkumar, "Fuzzy Perfect Mappings and Q-Compactness in smooth Fuzzy Topological Spaces", *Fuzzy information and engineering*, Vol.6, No.1, pp.115-131, August 2014.
31. Pravin Kumar S, Subashini R, Ayesha Samreen, Deepthi G and Mythili S, "Detection of Diabetic disorders in the lower extremities: A cost effective screening device", *Biomedical Research*, Vol. 25, issue 4, pp. 483 - 488, August 2014.
32. Ganesan P. and V.Rajini, "Color space based edge detection for satellite image segmentation", *International Journal of Science Research and Technology*, Vol 2(3), pp. 18-22, Sep.2014.
33. Ganesan P. and V.Rajini "Application of Modified K-Means Clustering Algorithm for Satellite Image Segmentation based on Color Information", *International Journal Of Advanced Research In Computer Science*, Volume 4, Number 5, 2014.
34. Ganesan P. and V.Rajini, "Comparative Study of Denoising Methods for Satellite Image Restoration Using Matlab", *International Journal Of Advanced Research In Computer Science*, Volume 4, Number 5, 2014.
35. Ganesan P, V.Rajini, B.S. Sathish and Khamar Basha Shaik, "Segmentation and Comparison of Water Resources in Satellite Images using Fuzzy based Approach", *Springer book series Advances in Intelligent Systems and Computing*, Springer Publishers, Vol. 309 (1), pp.685-692, 2015.
36. Ganesan P, V.Rajini Sathish and V. Kalist, "Unsupervised Segmentation of Satellite Images based on Neural Network and Genetic Algorithm", *Springer book series Advances in Intelligent Systems and Computing*, Springer Publishers, Vol. 309 (2), pp. 319-326, 2015.
37. Ganesan P and V.Rajini, "CIELAB color space based high resolution satellite image segmentation using modified fuzzy C means clustering", *MAGNT research report*, ISSN 1444-8939, Vol 2, No 6, pp.199-210, 2014.
38. R.Seyezhai, D.Umarani, "Investigation of Quasi Z-Source Cascaded Multilevel Inverter for PV System with Maximum Power Point Tracking", in the *International Journal of Applied Mechanics and Materials*, transtech Publications, Vol.622, pp.105 -110, 2014.
39. Mrunal Deshpande, "Effect of magnetic water on growth of legumes", in *European Journal of Applied Engineering and Scientific Research*, Vol 3, Issue 3, Sept. 2014.
40. S. Kirubaveni, S. Radha, B. S. Sreeja and T. Sivanesan, "Analysis of rectangular and triangular end array type piezoelectric vibration energy harvester", *Microsystem Technology*, Sept. 2014.
41. Sanjana Sahayaraj and Shomona Gracia Jacob, "Data Mining to Help Aphasic Quadriplegic and Coma Patients", *International Journal of Science and Research*, pp.121-125, September 2014.
42. Sriram Kailasam, Prateek Dhawalia, S J Balaji, Geeta Iyer, and Janakiram Dharanipragada, 'Extending Map Reduce across Clouds with BStream', *IEEE Transactions on Cloud Computing*, Vol. 2, no. 3, pp. 362-376, Sept. 2014.
43. Sanjana Sahayaraj and Shomona Gracia Jacob, "Data Mining to Help Aphasic Quadriplegic and Coma Patients", *International Journal of Science and Research (IJSR)*, ISSN (Online): 2319-7064. September 2014.
44. A. Beulah, J. Rajeswari, R. Revathi and S. Ramya, "Security Enhanced Group Key Agreement for Multicast in MANETs" in *International Journal of Futuristic Trends in Engineering and Technology* Vol. 1 Issue 7, pp: 4 – 7, 2014.
45. Monica.T, Soundarya.S, Satishkumar.K and Guru prakash.S, "Antibacterial efficacy of iron-oxide nanoparticles against biofilms on different biomaterial surfaces", *International Journal of Biomaterials*, pp. 1-6, September 2014.

**GOLDEN PEACOCK AWARDS**



The Institute of Directors, India conferred the Golden Peacock Award for 'Social Leadership' to Shiv Nadar, Founder and Chairman, HCL and Shiv Nadar Foundation for his leadership and philanthropic achievements and contributions under the aegis of the Shiv Nadar Foundation. The award was presented at the 14th London Global Convention to Roshni Nadar Malhotra, CEO, HCL Corporation & Trustee, Shiv Nadar Foundation, who was present at the ceremony to receive the award on behalf of Shiv Nadar. The distinguished gathering included business leaders, jurists, academics, legislators and policymakers.

Speaking on the award, Shiv Nadar said, "This is a great honour and I thank the Institute of Directors, India for this recognition. In today's increasingly fragile socio-economic ecosystem, education is a powerful medium for enabling inclusive, transformational and sustainable change. This award is a testimony to the fact that we are on the right path and that education will play a key role in revitalizing disadvantaged communities and thereby impacting the social fabric of communities and nations."

More can be read at: [http://shivnadarfoundation.org/sites/default/files/The-Golden-Peacock-Award-Press-Release-India\\_0.pdf](http://shivnadarfoundation.org/sites/default/files/The-Golden-Peacock-Award-Press-Release-India_0.pdf)

**SUPRA VEHICLE AT SSN**

This vehicle is the effort of a team of 25 SAEINDIA student members of Mechanical Engineering department under the leadership of the immediate graduated students Kalaiselvan J., M. Ezhilan, and A. Mukesh. This Real Formula Car confirms to the norms and standards set by the SAEINDIA.

The team participated in the dynamic round organized by the SAEINDIA (SUPRA wing) at the prestigious Madras Motor Race Track (MMRT) near Sriperumbudur, Chennai on July 18-20, 2014. The total budget of the vehicle is close to 6 Lakhs.

SUPRA Team members with their SUPRA Formula car. Present with them are Principal and the two Faculty Advisors.



**CHAOS IN THE TRAFFIC JAM**

I am late for work,  
stuck in traffic.  
Accident in the road, car hits a bike.  
A father's head is bleeding,  
and his son's down crying,  
and there's chaos in the traffic jam.  
No one is helping that poor child,  
looking as though they are all blind.  
Oh God, who's gonna help the child,  
Mind says "avoid him",  
Conscience says "help him",  
but I'm late for work,  
and there's chaos in the traffic jam.  
Took a decision,  
to help that kid.  
Took his father to a hospital,  
but the father dies,  
and the kid, just cries.  
I'm late,  
not for work,  
but for the kid,  
and there's chaos in the traffic jam.  
One more thing,  
be safe,  
and drive safe,  
Else there will be chaos in the traffic jam.

N.Goutham  
I B.E (Mechanical)

**TRANSIENCE**

Awake I am from a good night's sleep  
To see the kisses of the pattering rain on my window pane  
To rouse my sullen soul  
By innocent surprise of rapturous strain  
Heralding a new season  
He, she, all of them, aye  
Treble, tenor and bass  
To play in the splattering rain  
To enjoy life to the dregs  
Ah, no, the years, the years  
Down the carved ploughs, their name  
Men, maidens, together yea  
Crooning the tunes of prime  
With a glimpse of bay  
Dashing waters cut across  
The desired wishes to dream  
Ah, the years, down in swirls  
Elders and erudite bending to reach  
The white storm-birds wing across  
Clocks, carpets and chairs, monumental  
With candles mooning each face  
Ah, no, the years, oh the years!  
Surging sick trees reel in throngs  
They sing their celestial songs  
In the garden gay, the pathways neat  
No creepy mosses or dangerous whirls  
Ah! Life's blithe spirit  
They change to a high new tide  
On the shores of eternity.

K. A. Gowthaman Sibi  
II B.E (ECE)

**FALLING OF RAINDROPS**

A mystical source from above  
Falling in love  
With the earth  
As it falls giving itself its worth  
A small splash of rain  
Make the surroundings divine  
A cleanser cleansing dirt from us  
And restoring the goodness thus  
Rain though called by different names  
Falling from the heights of thousands  
Has just a single quality  
Making earth live to its beauty  
Just like a lion's roar  
In the quite forest life  
Rain less or rain more  
A creator or destroyer in man's life  
Leading life is difficult without rain  
And there will throughout be pain  
No crops grow without rain  
Yet it has always made fain  
Raining is a beautiful phenomenon  
Rising from oceans and returning finally back  
To the place of its origin  
There is no quality it lacks  
The smell appearing before start of rain  
Eases all the pain  
Out of all and mesmerizes  
The glory that it signifies  
The precious source available to all  
An immortal drink from heaven  
Giving sensation of heaven  
Never ceases its fall  
Rain and earth are like  
Brother and sister  
Eager to get to sense each other  
Finally departing; just like  
The way they met  
Raindrops preceded by  
Thunder and lightening  
Taps against the window panes  
Creating peace within the inner being.

M. Karthik Avinashilingam  
I B.E. (Mechanical)

**WAR**

Aeons ago, the land was ruled by them,  
The arrogant ones who called themselves Lords.  
They stole from the people their rightful things  
And gave them sorrow; both went for their swords.  
And there was bloodshed, misery and pain,  
Among both, none could afford to lose more.  
Neither could fathom how war had no gain,  
And how it left them- bruised, broken and sore.  
Then it hit them, at that boundless moment;  
How foolish it was to fight without cause.  
And each side stopped the killing and torment;  
The proud lords humbled themselves and gave pause,  
And repented their sins, till at long last,  
Peace swept through the land, and war became past.  
(An attempt at writing a sonnet in Iambic Pentameter)

Kaavya K.  
I B.E.(Mechanical)

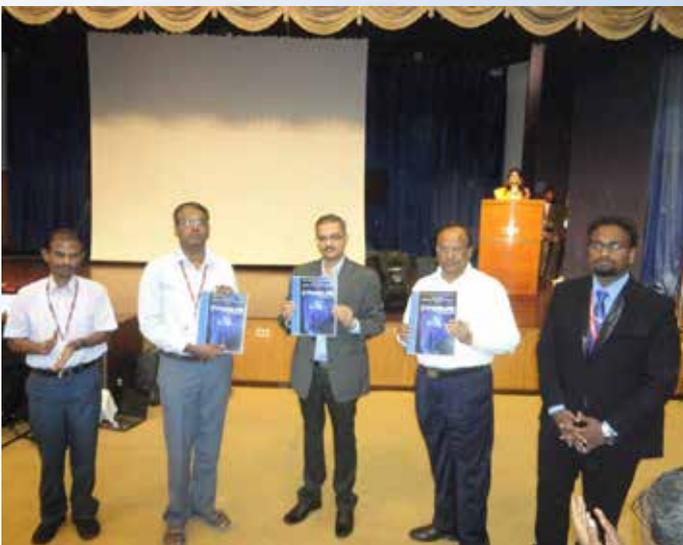
# GLIMPSES OF NATIONAL LEVEL



ORBITCE, Electronics and Communication Engineering



CRANKX, Mechanical Engineering



EUPRAXIA, EEE



CHEMICZNA, Chemical

# STUDENT TECHNICAL SYMPOSIA 2014



PARADIGM Computer Science and Engineering



SRISHTI, BME



KRACIVA, CIVIL



CONVERTITA, Information Technology



# LIGHTS OUT PLEASE

Lights out Please (LOP) , SSN's Theatre Group occupies a special space in the minds of 'Chennai Theatre Lovers'. LOP consists of 50 students from the college and have to their credit several public shows at auditoriums of repute, namely, Music Academy, Egmore Museum Theatre, and Goethe Institute besides any number of cultural festivals organised by institutions of repute. It staged Robert Scott's "A Spy with a View" for IIT Saarang's theatricals and at Crea Shakthi's "Dramalog" two very important contests. It was



awarded the first prize at Saarang winning a prize amount of Rs.30,000 and also emerged first in the Dramalog, held annually at Goethe Institute.

The artists are proud to point out that this experience has vastly helped them develop their communication skills, and several life skills, namely, confidence, courage, interpersonal communication, sense of humour and the rest. LOP is ready to nurture budding artists at SSN.

## SSN MUN 2014



SSN Model United Nations 2014 (MUN) conference was conducted from 12th to 14th of September 2014. A MUN is an academic simulation of the United Nations where students take up the role of diplomats of various nations in different organs of the UN and debate and deliberate on various issues of global concern.

SSNMUN 2014 consisted of five committees' viz. United Nations General Assembly-Disarmament and International Security Council (UNGA-DISEC), Human Rights Council (UN-HRC), United Nations Security Council (UNSC),

Economic and Social Council (ECOSOC) and the African Union (AU).

Over 180 delegates from across South India arrived at SSN to take part in this conference organised by the Secretary General-Vishal V (B.E Mechanical Engineering), Deputy Secretary General-Jerry. G. Thomas(B.E Electronics and Communication Engineering) and a secretariat team of 12 members. Each person had distinct responsibilities and were ably aided by students of the first year and second years of SSNCE.

Debate in the various councils was held in rooms across the college viz. MBA Seminar Hall, Central Seminar Hall, Mini Auditorium, CSE Seminar Hall, IT Seminar Hall.

Cash prizes were awarded to the best delegates of various councils. Overall, SSNMUN 2014 was a grand success with over 180 delegates, Chairpersons and reporters descending at SSNCE for 3 days of intense and stimulating debate.



## THINGS YOU CAN DO TO IMPROVE YOUR ENGLISH

Language is a means of expressing our thoughts and feelings to those around us, by means of a system of words or signs. English is one such means, people use, to express themselves. But while some find it easy to converse in this language, others may think of it as an uphill task to come up with the right words and phrases to put their ideas out there. We cannot ignore the importance and the urgency of learning the language in today's world, since it is the language spoken by majority of the population around the world for both business and pleasure.

So, the question arises as to how one can learn or improve his/her language and speaking skills in order to converse freely and confidently when in an exchange with another individual or in a group. Some of the easiest things we can do to overcome this hurdle are:

- **Read!** Probably the easiest and most effective method to gain knowledge about the language is to read. You can read a novel, newspaper or even a comic. This will not only help you improve your language skills but also widen your imagination and keep you up to date with the times.
- **Learn** a couple of **new words** from the dictionary every day, or perhaps when you encounter a word in a book or newspaper that leaves you bamboozled.
- **Watch movies.** Well, it might not be the most advisable thing to do according to your parents and teachers, but a movie with subtitles will definitely help you study how lines are delivered and the accents of various actors from around the world. This is perhaps the most fun way possible to improve your English language.
- If you aren't much of a movie buff, **watch** your favourite sport with **English commentary**. Learn how different commentators use different phrases to describe different situation or the same situation several times (like when Yuvraj Singh smashed all six balls of Stuart Broad's over for Sixes!)
- In case your language isn't quite up there yet and you find it hard to follow movies, watch them with **subtitles in your own language** or watch a movie of your preferred language with English subtitles. This will help you catch on easier.

- **Watch speeches** delivered by famous personalities or go for dramas and plays whenever you get chance to. You can also try going for cultural and watch the participants use all sorts of phrases, and parts of speech like alliterations, etc during debates and other events like just a minute, shipwreck etc.
- **Try speaking** whenever you get a chance to. Don't be afraid to make mistakes. People can only correct your mistakes when they hear you make them. For this, you will have to surround yourself with people who can speak in English. You can also learn passively, while you hear them converse to each other.
- Make use of the **internet** and **social networking** sites. It's full of resources to help you learn and improve. There are online tests and classes as well as blogs which you can read and enjoy.
- **Write** whenever you can, about whatever is in your heart and mind. This is after all, a means to tell people how you feel. Maintain a diary and put your thoughts down in it whenever you are in the mood. Who knows you might end up becoming famous and then this will be your own little autobiography.
- And though this might sound cheesy, having a **pen-pal** can actually help, provided he/she shows interest in replying to your letters.
- **Listening to good English songs** (and by good I mean NOT Justin Beiber's *Baby* or Taylor Swift's *Love Story*), can not only help you learn the language but also give you things to communicate to the opposite gender.
- If you have had the **patience** and **will power** to read all the above listed points, you have already kick-started the journey to learn and speak better English. By the time you are done, you'll probably even know the meaning of the word 'bamboozled' and be using it in your everyday speech.

Compiled by Tarun Thomas Philip III B.E (Civil)  
(From a discussion held in the Communication Skills  
Laboratory 2014)

## DESPAIR

Nowhere to go,  
Nowhere to hide,  
I'm stuck in this world,  
With no hope or pride.  
Dreams are big,  
Ambitions are high,  
But all I see,  
Is a world full of lies.  
Dejected and depressed,  
That's how I feel.  
For this is a pain,  
Which no one can heal.  
Problems, problems everywhere,  
Not a solution to be found.  
My life is filled with despair,

For I'm left alone and astound.  
I don't know what to do,  
I don't know what to say.  
It's tough being alone  
Every single day!  
Life is uncertain,  
Let's give it our best.  
For every single moment ,  
Is like a test.  
I'm looking for an answer,  
From you, yes YOU!  
Do consider this my prayer,  
And help make my dreams come true.

T. Subrahmanya Siddaarth  
III B.E (Mech)

## ARJUNA AWARD

Our Alumnus, ANAKA ALANKAMANI, receives ARJUNA AWARD from President of India



SSN is proud that Mr. Ravichandran Ashwin (cricket) also received the ARJUNA AWARD 2014. We express our deep sense of appreciation for this achievement.

## SSN TROPHY

SSN TROPHY, a sport extravaganza, was conducted for the 12th consecutive year. The Tournament, which consists of 7 different events namely-Badminton, Basketball, Chess, Table Tennis, Cricket, Squash and Tennis for both men and women categories. SSN had 72 institutions with over 1200 students participating this year.



## ஈரம்

காவேரி தென்பெண்ணை பாலாறு  
தமிழகண்ட தோர்வையை பொருணைநதி  
என மேவிய ஆறுகள் பல ஓட  
திருமேனி செழித்த தமிழ்நாடு.

இன்று தன் முகம் கழுவக்கூட தண்ணீர் இல்லாமல், அண்டை மாநிலங்களிடம் கெஞ்சிக் கொண்டு இருக்கிறது. இந்த மாநிலங்கள் தண்ணீர் கொடுக்கின்றனவோ இல்லையோ நன்றாகத் தண்ணிகாட்டுகின்றன. மத்தியிலும் மாநிலத்திலும் ஆட்சிகள் மாறினாலும், இந்தத் தண்ணீர் பிரச்சனை மட்டும் தீர்வதாக இல்லை. எனவே நதிகளையும் அரசியல்வாதிகளையும் சார்ந்திராமல் நாம் நமக்காக வேறு பல வழிகளில் தண்ணீர் இருப்பை உறுதி செய்து கொள்ள வேண்டும்

அப்படியானால் நிலத்தடிநீரை நம்பலாமா? இன்னும் 3 வருடங்களில் சென்னையில் நிலத்தடிநீர் இருந்தால் அது உப்புக்கரிக்கப் போகிறது. கிட்டத்தட்ட 10 வருடங்களில், தமிழகத்தின் பல பகுதிகளில் நிலத்தடிநீர் அதிக ஆழத்திற்கு சென்று விடப் போகிறது. அதையும் வெளியில் எடுக்க புதிதாக பம்பு செட்டுகள் கண்டு பிடிக்கத் தொடங்குவோமே தவிர வேறு வழிகளை யோசிக்கமாட்டோம் என்பதே நாம் வருந்த வேண்டிய உண்மை.

மழை நீரை நம்பலாமா? எப்போதாவது தான் நம்ப முடியும். எப்படிமே நம்பிக் கொண்டு இருந்தால் 'பல்பு' தான். வள்ளுவரே சொல்லிடுக்கார்..

விண் இன்று பொய்ப்பின்விநீர்வியனுலகத்து

உள்நின்றுஉடற்றும்பசி. திருவள்ளுவர் (குறள் 13)

அப்போ கடல்நீரைக் குடிநீராக்கும் திட்டத்தைச் செயல்படுத்தலாமா? செய்யலாம். ஆனால், தண்ணீர் விலை, 'தங்கமே பரவாயில்லை' எனச் சொல்ல வைத்துவிடுமே! அப்போ என்ன தான் செய்வது? வேறு வழியில்லை. இருக்கிற தண்ணீரைச் சாமர்த்தியமாக பயன்படுத்தக் கற்றுக் கொள்ளவேண்டும்.

பெய்யும் மழையில் குறைந்தது 14% நிலத்தடிநீராக மாற வேண்டும். அதற்குச் சென்னை போன்ற பெருநகரங்கள் உட்பட இனி எல்லா இடங்களிலும் மழைநீர் உட்புகுமாறு சாலைகள் அமைக்க வேண்டும். ஜெயலலிதாவின் முந்தைய ஆட்சியில் அமல்படுத்தப்பட்ட மழைநீர் சேகரிப்புத்திட்டம், இன்னும் கடுமையாக அமல்படுத்தப்படவேண்டும். சட்டமாக்கப்படவேண்டும். ஆறுகளில் மணல் அள்ளுவது நிறுத்தப்படவேண்டும். இன்னும் சில நாட்களில் பாதாள உலகத்தின் கதவுகளைத் தட்டிவிடப் போகிறோம். அதிகமான மழை இருக்கும் காலத்தில், நதிநீர் கடலில் கலக்காமல் இருக்க, டெல்டா பகுதிகளில் அணைகள் கட்டப்பட வேண்டும்.

இதற்கெல்லாம் முதலில் சொட்டு நீர்பாசனம் செய்ய வேண்டும். 35 லிட்டர் தண்ணீரில் நாம் விளைவிக்கும் பருத்தியை, கலிபோர்னியாவில் 1 லிட்டரில் விளைவிக்கிறார்கள். முடிந்தவரை வீட்டில் தண்ணீர் பயன்பாட்டைக் குறைக்க வேண்டும். கழிவுநீரை மறுசுழற்சிசெய்து, வீட்டிலேயே செடிகளை வளர்க்கப் பயன்படுத்தலாம். கேட்க சின்ன பிள்ளைத் தனமா இருந்தாலும் இதுதான் உண்மை. குழாயைத் திறந்துவிட்டு பல் விளக்கக்கூடாது. அதிக நேரம் ஷவர்ல குளிக்கக்கூடாது. தண்ணீயைத் திறந்து விட்டுட்டு பாத்திரம் கழுவக்கூடாது. பொழுது போக்குக்காகத் தண்ணீரைப் பயன்படுத்துவதை நிறுத்தவேண்டும்.

குறிப்பிட்ட அளவுக்கு ஒருவருக்கு, ஒரு நாளைக்கு 550 லிட்டர் மேல் நீருக்கு, தண்ணீர் வரி விதிக்கப்படவேண்டும். தன் சொந்த நிலத்தில் இருந்து எடுக்கப்படாவிடும். இங்கு இலவசங்களுக்குத் தான் மதிப்பு இல்லையே. ரொம்ப சின்ன பிள்ளைத் தனமா இருந்தாலும் பரவாயில்லை, ஒன்று நிச்சயம், மரம் வளர்த்தா தான் மழைகிடைக்கும்.

நம் இதயத்திலேயே ஈரம் இல்லாத போது நிலத்தில் மட்டும் என்று மேசரத்தை எதிர்பார்ப்பது தவறு. நாளை காலை பல்விளக்கும் போது, நீங்ககுழாயை மூடிட்டு விளக்குணீங்கனா அது வேதமிழ்நாட்டுத் தண்ணீர் பிரச்சனையைத் தீர்க்கும்.

அ. சௌம்யா,

தகவல் தொழில்நுட்பம், மூன்றாம் ஆண்டு.

## கவிதைகள்

பவம் செய்தவனுக்கும்  
பத்து மாத கோயில் வாசம்  
தாயின் கருவறை.

N.T. மனோகர், வேதிப் பொறியியல், முதலாம் ஆண்டு.

வெட்டிய மரமும்

பூக்கிறது

பென்சில் பூக்களாய்

மழையின் முதல் துளி

விழுந்து கொண்டு தான் இருக்கிறது

பலரின் மீது

கா. ஜோதீஸ்வரன், முதுநிலை மேலாண்மைத்துறை, முதலாம் ஆண்டு.

கடைகள் உள்ளே

சட்டை அணிந்த பொம்மைகள்

ஏக்கத்தில் பிச்சைக்காரன்

இரா. மோகனசுந்தரி, மென்பொருள் பொறியியல், முதலாம் ஆண்டு.

படமெடுத்தவனும் தெரிகிறான்

புகைப்படத்துக்குள்

ஸெல்ஃபீ.

பிளாஸ்டிக் பைகளில்

அச்சிடப்பட்டிருந்தது

'சுற்றுச்சூழல் பாதுகாப்போம்.

கே.ஆர். இயந்திரவியல், இறுதியாண்டு.

## ஆட்டுப் பொங்கல்

மாட்டிற்கு மாலை விழும் நேரம்...

ஆட்டிற்கு அரிவாள் விழுகிறது!

மாட்டிற்கும் என்ன நடக்கிறது என்று தெரியவில்லை...

ஆட்டிற்கும் என்ன நடக்கிறது என்று புரியவில்லை!

மாட்டிற்கோ நன்றாக இருக்கின்றது...

ஆட்டிற்கோ வலிகளோடு வாழ்க்கை முடிகின்றது!

மாட்டைப்பார்த்த ஆட்டிற்கும் தோன்றுகிறது...

ஆட்டுப் பொங்கல் வேண்டுமென்று!

ரி.ஸ்ரீராம், கணினி பொறியியல், முதலாம் ஆண்டு.

## இளைய சமுதாயம்

இளைய சமுதாயத்தின்

கூடரொளி நீயே - இளைஞனே

சிகரம் தொட நினைக்கும்

சிந்தனை உடையவன் நீயே

சாதனைகள் பல புரிந்து

சரித்திரம் படைப்பவன் நீயே

உன்னத உணர்வால்

உயரம் அடைவாய் நீயே

வாழ்க்கையின் உருவமும்

நீயே

அதற்கு உயிரும் நீயே

ஐன்னல் தூக்கங்கள் எதற்கு

மின்னலைப் பிடித்திடு

நத்தைக்கு தன் கூடு

சுமையென்றால் நகர்வதெப்படி

இளைஞனே உன்னையே நீ

சுமையென்றால் உயர்வதெப்படி

ஊர்வதையெண்ணி வருந்தாதே

சிகரம் தொடும் சாதனைப்பாடாய்

என்பதை மறவாதே இளைஞனே

துயரங்கள் கண்டு துவளாதே

துள்ளி எழுந்திரு - அதை

துணிவுடன் செயல்படுத்திடு

என் இளிய இளைஞனே

வாழ்க்கை என்பது ஒரு ஓடம்

அது வாழ்பவனுக்கு ஒரு துளி நீரே

வாழத் தெரியாதவனுக்கு அது

பெருங்கடலை

சோர்வு என்பதை அகற்று உன் வாழ்விலே

அவையாவும் சாதனையே உனக்கு

என் இளிய இளைஞனே!

தோல்வி படிகளை அகற்று

அதை துணிவுடன் வெற்றிபடிகளாக்கு

இதனால் பூக்களும் புன்னகைக்கும்

உன்னைப் பார்த்து இளைஞனே

இறுதி வரைப்போராடு

உலகமே உனதானும் இளைஞனே!

மரணமும் உன்னை மறந்திடும்

மகிழ்வே என்றும் உன் வாழ்வாகும்

என் இளிய இளைஞனே!

- ந. சரண்யா

முதுகலை கணினி பயன்பாட்டுத்துறை,

இரண்டாம் ஆண்டு.

## Teachers' Day Celebration

Teachers' Day was celebrated on 19th September, 2014. Dr. Gana. Sirsabesan, Tamil Scholar along with Mr. Mathivanan Elangovan, Senior Director - Learning Solutions & High Business Impact Learning at Cognizant Technology Solutions graced the occasion. Dr. Sirsabesan revealed the truth about how teachers take pride in seeing their students

grow and achieve great things in their life. Mr. Mathivanan Elangovan stressed on the need for "passion, outcome and context" for getting ahead in one's career.

Prizes were distributed to teachers who had participated and won in the various cultural events organised by the College.

## Symposium 2014

Students at SSN get a wonderful opportunity to conduct technical symposiums at the national level on a grand scale every year. These events serve as grand eye openers to the student community in many ways. First of they share academic experience on their own field of study from various parts of the country. This gives them a broad perspective to the study of their subject. In addition, it provides an opportunity for a great experience in events management. They decide the theme of the symposium, invite colleges across the country, device a range of events with utmost novelty, arrange the venue, accommodation and hospitality for all the guests which is around 4000 in number. I am sure this experience will give them the much needed skills in organising an event, conducting seminar, presentation and other events online and offline. Some of the events that run across many branches of engineering start from the traditional paper presentation sessions to solving puzzles, breaking codes, playing intelligent online games and so on.

The schedule of events and the chief guest at the various symposiums conducted between 4th and 11th September 2014 are given below

04.09.14: ORBITCE 2k14, a National Level Student's Technical Symposium, was conducted by the Association of Electronics and Communication Engineers of ECE Department. Mr. K. Sridhar, Scientist-F and Head, Communications Systems Group, SAMEER, Chennai inaugurated the Symposium by lighting the Kuttuvillakku. He also gave a talk on "Communication Systems - Present and Future", and released the official souvenir "SURGE". About 4000 students from various engineering colleges in and around Chennai participated in the event.

05.09.14: The Department of CSE organized PARADIGM 2k14 a national level student's technical symposium. Mr. V.S. Sundara Raman, Vice President, RODE Product Development at Ramco Systems was the chief guest.

06.09.14: The national level student's technical symposium - CONVERITA 2k14 was conducted the Department of IT. The event was inaugurated by Mr. Sridhar Rangachari, ERP and IT Delivery Expert, Former GM Bahwan CyberTek, Muscat.

08.09.14: The Association of Biomedical Engineering conducted a national level student's Symposium SRISHTI 2k14. Mr. Siddharth Nair, Founder and Managing Director, Fyrsta Innovations Private India Ltd.,

09.09.14 : CRANKX 2k14 – The national level student's technical symposium, CRANKX 2k14 was conducted by the Department of Mechanical Engineering. Mr. Vaibhav Prakash, President (AME) was present at the inaugural function.

10.09.14: CHEMICZNA 2k14 a national level student's technical symposium of Chemical Engineering Department. Sri Jayamuruga Prakash, Vice President, Shasun Pharmaceuticals, Chennai was the Chief Guest. Treasure Hunt, SSN GP Indoor and Outdoor, Bottle Rocketrix, Paper plane, glider, truss masters are some of the events.

11.09.14: The Department of Civil Engineering organised KRACIVA 2k14 - A national level student's technical symposium for the first time. The symposium was jointly inaugurated by Mr. G. Sivakumar, Director-Highway Research Station, Tamilnadu and Dr. M.V. Ramana Murthy, Scientist, National Institute of Ocean technology, Chennai

We learned about gratitude and humility - that so many people had a hand in our success, from the teachers who inspired us to the janitors who kept our school clean... and we were taught to value everyone's contribution and treat everyone with respect.- Michelle Obama

You can not calm the storm, so stop trying. What you can do is calm yourself. The storm will pass.- Timber Hawkeye

Listen to positive people and ignore negative ones. People that doubt, judge, and disrespect you are not worth your time and attention.

One looks back with appreciation to the brilliant teachers, but with gratitude to those who touched our human feelings. The curriculum is so much necessary raw material, but warmth is the vital element for the growing plant and for the soul of the child. - Carl Jung

## TEACHERS' DAY CELEBRATIONS



# VIBRATIONS

October 2014



**SSN Institutions**

**Rajiv Gandhi Salai, SSN Nagar, Kalavakkam - 603 110, Tamilnadu, India**

**Phone : 91 44 2746 9700 Telefax : 91 44 2746 9772 - Extn: 230**

**email : [info@ssn.edu.in](mailto:info@ssn.edu.in)**

**[www.ssn.edu.in](http://www.ssn.edu.in)**