

A Quarterly from IIITD&M Kancheepuram

## Swachh Bharath Abhiyan (Clean India Campaign)



As part of the Gandhi Jayanthi celebrations and as per the MHRD directions, the Swachh Bharat Abhiyan activity was initiated in the institute on 2 October 2014. The day saw enthusiastic participation from students, staff and faculty members in the cleansing drive within the campus.

Administration, Academic, Hostel

zones and Cafeteria area were taken up for the cleansing drive. The day ended with an oath administered by the Director on the need for and involvement of every citizen's role in a Cleaner India. Competitions highlighting the theme of Clean India such as elocution, drawings were organized for neighboring school students. The clean India campaign would be undertaken by the institute with sustained vigor and shall see further activities in the ensuing academic year.



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## Guest Lecture



A guest lecture was delivered by a design team from M/s. Polaris Chennai on 17 October 2014. The lecture focused on the various standards expected by the industry in the field of software design and development and relevant skillset requirements. As



part of the lecture, a laughter therapy session was conducted by the trainer which served as a great stress buster for the audience and taught the significance of enjoying work and work ambience.

## Rashtriya Ekta Diwa (National Unity Day) Celebrations



Inline with the Government's decision to celebrate 31 October as National Unity Day, the institute conducted a series of events to commemorate the birth anniversary of Shri Sardar Vallabhai Patel. A "Unity Run" was conducted covering the periphery of the 50 acre campus and was flagged off by the Director. The event saw active and enthusiastic participation from the IIITDM fraternity. Top 3 positions were awarded in the male and female category across students, staff and faculty members, in line with the motto of unity day. A

cultural event involving singing, dance and oratory was also conducted and the students came up with a brilliant performance, despite the short span of time for preparation. Director addressed the audience highlighting the contributions made by the first Home Minister of India and distributed awards / mementoes to students who had secured positions in the unity run / cultural events.



## National Education Day - 11 November 2014



Institute celebrated the birth anniversary of the first Human Resource Development (HRD) Minister Shri Abul Kalam Azad with fervor and dedication.

### Activity of Designer's Club

The Designer's Club of the Institute organized a three day intra college fest during 25-27 October 2014. The event saw a blend of cultural and technical contests like robotics, debate, singing and many more. Cluster events were conducted and was a grand success.

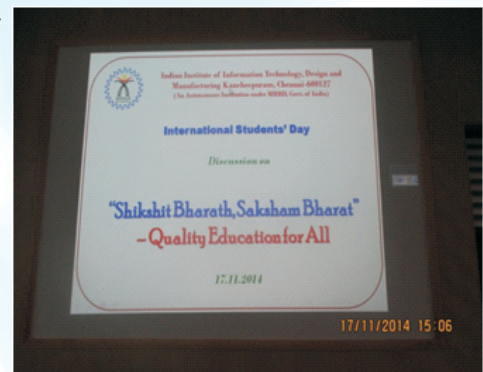


## International Students Day Celebrations – 17 November 2014



As part of the various activities planned by MHRD on the occasion of International Students Day, an open discussion forum involving students, staff and faculty members deliberated various aspects that impact the education of school and college students in India. The brain storming session was a very interactive and informative one and touched on the real issues

that impact the literacy rate of the country. The best student speakers from the event would be nominated by the institute to represent their views on improving the education system at national / international events.



## Memorandum of Understanding – Nagaoka University, Japan

Representatives from Nagaoka University, Japan visited the Institute during December 2014 as part of the activities under the MoU. The MoU in its present form has facilitated a few of our M.Des and B.Tech students to undertake internship / higher studies at this reputed university. Prof M Okazaki and the Director



interacted with the audience on the proposed scope for collaboration such as joint degree programmes at the post graduate level and further research avenues.



## Workshops – December 2014



A one day workshop on “Fiber Interferometric and its Applications” was organized on 19 December, 2014. 25 participants inclusive of members from the industry and academia attended the workshop. Experts from IIT Madras, Prof Balaji and Prof Nilesh Vasa, conducted sessions on fiber gratings based devices for communications and sensing applications. M/s Eagle Photonics conducted a demonstration session of educational fiber optic kits developed by the company. The workshop was well

attended and received by the audience. The workshop was jointly organized by Dr Naveen Kumar Vats and Dr Priyanka Kokil.

Another one day UKIERI (UK-India Education and Research Initiative) sponsored workshop on "Recent Research Trends in Signal Processing and Communication" was organized by Dr Priyanka Kokil and Dr MD Selvaraj on 11 October, 2014.



## Good Governance Day - 24 February 2014

The institute celebrated the Good Governance Day by organizing an expert session by Smt. Rajashri Natarajan, Vice President, Cognizant Technology Solutions, Chennai. Elocution open to student, staff and faculty members highlighted on the theme of good governance and the role of technology in it. A Jury team comprising of faculty and staff members finalized the awardees from the participants. The chief guest for the day elicited her views on efficient and effective leverage of the internet and mobile medium to governance.



## Publications

- ❖ C. Gurunathan, R. Gnanamoorthy, and S. Jayavel, Frictional Heat Generation in Selective Ceramic Reinforced Polymer Composites - Effect of Particle Size, Proc. AIMTDR, 12-14, Dec 2014, IITG, India.
- ❖ Sagar Dolas, Gurunathan C and Gnanamoorthy R, Life Estimation of Cardiovascular Stents Using Numerical Approach - Effect of Ageing, Proc. ICAD&M, 5-7 Dec 2014, NIT Trichy, India.
- ❖ KH Koh, M Sreekumar, and SG Ponnambalam, Feasibility Study for Applying Electrostatic Adhesion on Wall Climbing Robots, International Journal of Advancements in Mechanical and Aeronautical Engineering, 2014, 1(4), 53-58.
- ❖ Madhevan B, and Sreekumar M, A Systematic Implementation of Role Assignment in Multi Robots using Leader Follower Approach: Analytical and Experimental Evaluation, Proc. 13<sup>th</sup> IEEE International Conf. on Control, Automation, Robotics and Vision (ICARCV 2014), 10-12 December 2014, Singapore, 1792-1798.
- ❖ Saurav Verma, Mohit Verma and M. Sreekumar, Design and Development of a Novel Robotic Endocapsule for Inspection of Lower Gastrointestinal Tract, Proc. International Conf. on Advances in Design & Manufacturing (ICAD&M'14), 5-7 Dec. 2014, NIT Trichy, India, ISBN 978-93-84743-12-3, 609-613.
- ❖ Mohamed Asan Basiri M and Noor Mahammad Sk. "An Efficient Hardware-Based Higher Radix Floating Point MAC Design.", ACM Transactions on Design Automation of Electronic Systems, 2014, 20(1), Article No.: 15.
- ❖ S Dinesh Kumar and Sk. Noor Mahammad, "A Novel SRAM Cell Design Using Reversible Logic", Proc. 3<sup>rd</sup> IEEE International Conf. on Eco-friendly Computing and Communication Systems (ICECCS 2014), 11-13 December 2014, NITK Surathkal, 1-4.
- ❖ S. Veeramani and Sk. Noor Mahammad. "Efficient IP lookup using hybrid trie-based partitioning of TCAM-based open flow switches", Photonic Network Communication, 2014, 28(2), 135-145.
- ❖ S. Dinesh Kumar and Sk. Noor Mahammad, "A Novel Binary Content Addressable Memory Design using Reversible Logic", Proc. International Conf. Computing and Communication Technologies (ICCT 2014), 11-13 December 2014, Osmania University, Hyderabad, India
- ❖ R. Deepakkumar and S. Jayavel, Effect of Under Relaxation Factor on Convergence Rate of cComputations for Flow Past Circular Cylinder, Proc. 6<sup>th</sup> International Conf. on Theoretical, Applied, Computational and Experimental Mechanics, 29-31 December 2014, IIT Kharagpur, India, Paper No. ICTACEM-123.
- ❖ S. Thirumavalvan, V. Sivachithambaram and S. Jayavel, Numerical Investigation of Biodiesel Reactor, Proc. 6<sup>th</sup> International Conf. on Theoretical, Applied, Computational and Experimental Mechanics, 29-31 December 2014, IIT Kharagpur, India, Paper No. ICTACEM-258.
- ❖ Y. Usha and S. Jayavel, Effect of Cylinder Rotation on Heat Transfer, Proc. 6<sup>th</sup> International Conf. on Theoretical, Applied, Computational and Experimental Mechanics, 29-31 December 2014, IIT Kharagpur, India, Paper No. ICTACEM-260.
- ❖ R. Senthil Kumar and S. Jayavel, Heat Transfer Enhancement under Natural Convection of Triangular Aluminium Fins using Carbon Nano Tubes, Proc. 6<sup>th</sup> International Conf. on Theoretical, Applied, Computational and Experimental Mechanics, Paper No. ICTACEM-334, 29-31 December, 2014, IIT Kharagpur, India.
- ❖ E. Papanasam, and Binsu J Kailath, "Realization of Silicon Carbide MIS Capacitors with High-K and High-K Stack Dielectric," Proc. IEEE 12<sup>th</sup> International Conf. on Solid State and Integrated Circuit Technology (ICSICT), 28-31 Oct., 2014, Guilin, China.
- ❖ Ramachandran K., Naveen Kumar and Venkataraman Sahoo, "A Highly Accurate All-Fiber MMZI Current Sensor", IEEE Sensors Journal, 2014, Article In Press, DOI10.1109/JSEN.2014.2361837.
- ❖ M.D. Selvaraj and Swaminathan R, "Performance of Hybrid Selection and Switch-and-Stay Combining With Decode-and-Forward Relaying", IEEE Communication Letters, 2014, 18(12), 2233-2236.
- ❖ Swaminathan R, M.D. Selvaraj, and Rajarshi Roy, "On the Error and Outage Performance of Decode and Forward Cooperative Selection Diversity System with Correlated Links", IEEE Transactions on Vehicular Technology, DOI 10.1109/TVT.2014.2356479.
- ❖ Dr Priyanka Kokil delivered lecture on Effects of Finite Wordlength in Digital Filters at Sri Venkateswara College of Engineering, Sri Perumbudur on 25 Oct. 2014.
- ❖ Dr N Sadagopan delivered an invited talk on "Beyond Sequential Computations - Towards Parallel Algorithmics" at VIT Chennai on 11 Dec. 2014 as part of One Day workshop on Parallel Computing.
- ❖ Dr M Sreekumar delivered an invited lecture on "Parallel Robots and Mechanisms in Manufacturing & Smart Materials and Compliant Mechanisms-Overview" during an UGC Sponsored two days workshop on Recent Research Trends in Manufacturing Engineering, organized by the Anna University (CEG, Guindy), Chennai, 10-11 October 2014.
- ❖ V. Masilamani, D.K. Sheena Christy, D.G. Thomas, Atulya. K. Nagar, Robinson Thanburaj, "Accepting H-array Splicing Systems", Proc. International Conference on Bio-Inspired Computing - Theories and Applications (BIC-TA2014), 16-19 October 2014, Wuhan, China.



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