



# THE BPPIMT - NEWSLETTER

A Quarterly In-House Magazine  
of

**B.P. Poddar Institute of Management and Technology**

Email: [bppimtnewsletter@bppimt.ac.in](mailto:bppimtnewsletter@bppimt.ac.in)

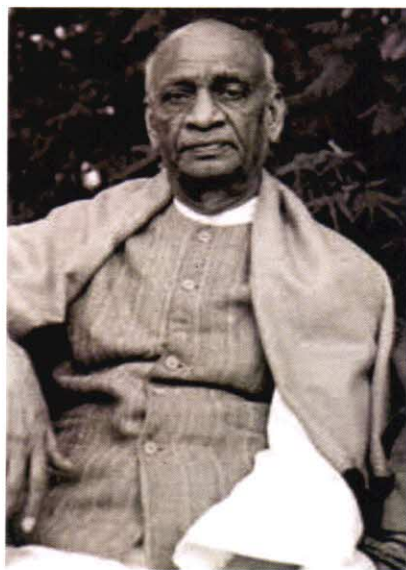
Issue - XXVI, JANUARY 2015

Chief Advisor: Prof (Dr.) Sutapa Mukherjee

Editor in Chief: Prof (Dr.) B.N. Chatterji



## Remembering Sardar Vallabhbhai Patel - The Iron Man of India



**Sardar Vallabhbhai Patel** was born in a Gurjar patidar of Gujarat on 31 October 1875. His native place was Karamsad. He was an Indian barrister and statesman, leader of the Indian National Congress and one of the founding fathers of the Republic of India. He was a social leader who played a leading role in the country's struggle for independence and guided its integration into a united, independent nation. In India and elsewhere, he was often addressed as *Sardar*.

He was raised in the countryside of Gujarat. Vallabhbhai Patel was employed in successful practice as a lawyer. Patel subsequently organised peasants from Kheda, Borsad, and Bardoli in Gujarat in non-violent civil disobedience against oppressive policies imposed by the British Raj; in this role, he became one of the most influential leaders in Gujarat. He rose to the leadership of the Indian National Congress and was at the forefront of rebellions and political events, organising the party for elections in 1934 and 1937, and promoting the Quit India movement.

As the first Home Minister and Deputy Prime Minister of India, Patel organised relief for refugees in Punjab and Delhi, and led efforts to restore peace across the nation. Patel took charge of the task to forge a united India from the British colonial provinces allocated to India and more than five hundred self-governing princely states, released from British suzerainty by the Indian Independence Act 1947. Using frank diplomacy, backed with the option and use of military force, Patel's leadership persuaded almost every princely state. Often known as the "Iron Man of India" or "Bismarck of India", he is also remembered as the "Patron Saint" of India's civil servants for establishing modern all-India services. This great son of India passed away on 15 December 1950.

## NEW YEAR WISH

We left behind another eventful year and will start a new year with new promises and expectations. I am sure that we shall overcome all the resistances with our dedication, hard work and confidence. In this occasion, let us promise to join our hands together to raise the flag of the Institute high. I would like to take this opportunity to wish all of our students, faculties and staff members a very happy and prosperous new year.

- Prof. (Dr.) Sutapa Mukherjee  
Principal BPPIMT



May the new year bring you success  
happiness and prosperity.  
Have a happy new year!  
May each and every day of the New Year  
Brings you lots of happiness and love.  
Happy New Year 2015.

## ACADEMIC NEWS:

### Publications:

#### Journals:

**Bikromaditty Mondal**, Palash Das, Pradyut Sarkar, Susanta Chakraborty, "A comprehensive fault diagnosis technique for reversible logic circuits", *Computers & Electrical Engineering*, **40** (7), pp. 2259–2272 (October 2014), Impact Factor: 1.00, ISSN: 0045-7906.

M H Khan, Sudipta Pal, **Esa Bose**, "Frequency-dependent dielectric permittivity and electric modulus studies and an empirical scaling in  $(100-x)\text{BaTiO}_3/(x)\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$  composites", *Applied Physics A*, **118** (3), pp. 907-912, DOI 10.1007/s00339-014-8810-8, (October 2014), Impact Factor: 1.694, ISSN: 0947-8396.

R. Nandi, **Sagarika Das**, P. Venkateswaran, "Floating lossless immittance functions using DVCCTA", *International Journal of Electronics letters*, DOI: 10.1080/21681724.2014.966772, 1-10, (October 2014), Impact factor: 0.751, ISSN: 2168-1724 (Print), 2168-1732 (Online)

Sonali Chakraborty, **Arijit Saha**, Kallol Bhattacharya, "Extraction of difference of two images using periodic carrier modulation", *Optik* **125** (21), pp. 6466-6469 (November 2014), Impact factor: 0.769, ISSN: 0030-4026.

**Papri Saha**, Dolonchampa Saha, Anirban Ray, A. Roy Chowdhury, "Multistability in a single system with hidden attractors – theory and experiment", *International Journal of Physics*, **2** (6), pp. 217-225 (November 2014), Impact Factor: 0.76, ISSN: 2333-4568 (Print), 2333-4576 (Online)

#### Conferences:

Pradyut Sarkar, **Bikromaditty Mondal**, Amit Kr Pramanik, Susanta Chakraborty, "Symmetric Function Realization using Reversible Circuit Synthesis", 22-25 October 2014, Bangkok, Thailand, Proc. TENCON, pp. 1-6, Publisher: IEEE- TENCON,



Bangkok, Thailand.

**Gitosree Khan, Sabnam Sengupta**, Anirban Sarkar, "Modeling of inter-cloud architecture using UML 2.0: Multi-Agent abstraction based approach", 13-15 October 2014, New Orleans, Louisiana, USA, Proc. International Conference on Software Engineering and Data Engineering (SEDE), pp. 149-154, Publisher: International Society of Computers and Their Applications (ISCA), Winona, MN, USA, ISBN: 978-1-880843-96-3.

**Gitosree Khan, Sabnam Sengupta**, Anirban Sarkar, "WSRM: A relational model for web service discovery in Enterprise Cloud Bus (ECB)", 18-21 December 2014, NIT Suratkal, Proc. International Conference on Eco-friendly Computing and Communication Systems (ICECCS), 2014, pp. 117-122, Publisher: ICECCS-2014, Mangalore, India, ISBN: 978-1-4799-6996-8.



Md. Alibordi, **R. Goswami**, S.S.Ghugre, R. Raut, "Study of low-lying band structure of transitional nuclei using Particle-Rotor Model -  $^{109}\text{Sb}$ ", 8-12 December 2014, BHU, Varanasi, India, Proc. DAE Symp. on Nucl. Phys. **59**, pp. 264-265.

#### Invited Lecture:

Prof. Dr. B. N. Chatterji, Dean Academics, delivered Amal Roy Memorial Lecture titled *A brief historical review of pattern recognition and image processing research and development work on the Computer Day*, December 6, 2014 at Computer Society of India, Kolkata.

Prof. Dr. B. N. Chatterji, Dean Academics, delivered invited speech and was the chairperson of the session *Image Processing* at 2014 Fourth International Conference on Emerging Applications of Information Technology, EAIT 2014, during December 19-21, 2014 at Indian Statistical Institute, Kolkata.

## INSTITUTIONAL NEWS:

### Participation

**Debarati Dey**, Pradipta Roy, Tamoghna Purkayastha, Debashis De, "A first principle approach to design gated pin nanodiode", 3rd International Conference on Nanotechnology (Nanocon 014), 14-15 October 2014, Pune, India, Abstract: pp. 30, Publisher: Bharati Vidyapith University, Pune, India.

**Debarati Dey**, Pradipta Roy, Tamoghna Purkayastha, Debashis De, "Comparative study of resonant tunnel bio-gated and non-gated diode based on first principle approach", Proc. International Conference on Frontiers in Nano Science and Applications, 20-22 December 2014, Puttaparthi, Andhra Pradesh, India, Abstract: pp. 77, Publisher: Dept. of Physics, Sri Sathya Sai Institute of Higher learning, Prashantinilayam, AP, India.

**Arijit Dey, Kunal Das**, Debashis De, Mallika De, "Fan-out constraints in quantum dot cellular automata circuit design", Proc. International Conference on Nanotechnology (Nanocon 014), 14-15 October 2014, Pune, India, Abstract: pp. 27, Publisher: Bharati Vidyapith University, Pune, India.

Sayantan Ghatak, **Kunal Das**, Debashis De, "Towards quantum dot and quantum device implementation with InP-GaAs-InP nanostructure", Proc. International Conference on Nanotechnology (Nanocon 014), 14-15 October 2014, Pune, India, Abstract published, Publisher: Bharati Vidyapith University, Pune, India.

**Mr. Pramathesh Das**, HOD Electrical Engineering and **Dr. Soumya Pal**, HOD Computer Applications attended and presented Institute Entrepreneurial activities at "Educators' round table conference of ED cell coordinators and innovators" organized by NEN on 10 December 2014 at Shri Shikshayatan College, Kolkata, India.

### Alumni Activities

An interactive session with the present students about experience at work place was conducted by the Alumni Association of BPPIMT on November 1, 2014. A panel discussion on "India in next ten years" was also organised on the same day. The prominent speakers were Mr. Utpal Chatterjee, Journalist and social worker, Former Sheriff of Kolkata, Mr. J. K. Neogi, Former Head, International Projects, Tata Power Ltd. (Singapore), Former MD (Visa Resources), and Mr. Ram Bandopadhyay, Retired I.A.S., Member of Central Administrative Tribunal and Former Secretary, Ministry of Corporate Affairs. The discussion was moderated by Mr. Debmalya Banerjee, Regional director of ASSOCHAM and Former Alumnus BPPIMT.

### Social Entrepreneurial Activity "Swachh Bharat Abhiyan"



"Swachh Bharat Abhiyan" is a national campaign by the Government of India, covering 4041 statutory towns, to clean the streets, roads and infrastructure of the country. This campaign was officially launched



on 2 October 2014 at Rajghat, New Delhi, where Prime Minister himself cleaned the road. It is India's biggest ever cleanliness drive and 3 million government employees and school and college students of India participated in this event. The event was observed in our Institute on 25 October 2014. The Director, Principal, Dean (Academics), Registrar, all HODs, and staff members participated in the programme.

### University Semester Exam

The odd semester exams started from 24<sup>th</sup> November and ended on 16<sup>th</sup> December 2014. Ms. Nandita Sanyal was the Officer-In-Charge and Mr. Balaram Ghoshal and Mr. Abhijit Bhattacharya were the supervisors for the exams.

### LANGUAGE FEST "THE PANACHE 2014"



The popular proverb says, 'Style leads a man' and to celebrate style in communication BPPIMT held its first English Language Fest, *The Panache 2014* (an intra-college competition), on 21<sup>st</sup> and 22<sup>nd</sup> October, 2014. Hosting about 9 events (Just-A-Minute, Word-cracker, Creative Writing, Debate, Jingle-Mingle, Language Quiz, Wordakshari, Skit and Treasure Hunt of Words) with the prelims on the first day and finals on the second, the Fest succeeded in its ultimate objective of generating an interest among students about communicative skills in English while bringing out the latent talents in each individual student.

The festival was initiated by the Principal, Prof. (Dr.) Sutapa

Mukherjee on October 21. The occasion further acquired grandeur in style and spirit with the inaugural ceremony on the next day October 22, with the participation of various dignitaries and guests, to precede the final round of events.

The Organizing Committee was honoured to have Ms. Hilda Peacock, ex-Principal, La Martiniere School for Girls as the Chief Guest. Ms. Peacock, in her speech at the inauguration, reiterated her feeling of being honoured to see that an engineering institute can think of making innovative and honest efforts to encourage its students to excel not only in the field of technology, but even in communication. She further emphasized on the fact that it is communication which rules the present world. Not only her willing presence in all the events, but also the participation and volunteering of all the students and sincere



involvement of the faculty and staff members of the institute under the active guidance of Dr. Ranjana Goswami, the Convenor of the Fest committee, made the fest a success. The closing ceremony on the same day found Computer Science Department emerging as the winner, followed by Electronics and Communication Engineering Department as the runners-up. However, beyond simple statistics, the success of the fest lies in Prof. B. N. Chatterji, Dean (Academics), expressing his satisfaction to the extent of praising the organizing skills and procedural method of the organizing committee. The Principal also declared the fest a success. However, the final feather of applause has been pinned by the students who are keenly waiting for the same, next year. The Organizing Committee is thankful to all the sponsors like TIME, Allahabad Bank, Ardent and others.

---

### **Rastriya Ekta Divas**

The Government of India introduced Rashtriya Ekta Divas or National Unity Day in 2014 on 31 October, the birthday of Vallabhbhai Patel. The intent is to pay tribute to Patel, who was instrumental in keeping India united. In our Institute, the Rastriya Ekta Divas pledge was taken on 31 October 2014 for spreading the message of Unity, Safety and Security as per AICTE guidelines.

### **National Education Day**

The National Education Day was observed on 11 November 2014 to commemorate the birth anniversary of Maulana Abul Kalam Azad, the first education minister of independent India, who served from 15 August 1947 until 2 February 1958.

### **Quiz Competition "GREY MATTER"**

Annual quiz competition for the students "GREY MATTER" was held on 8 November 2014. Like previous years, this annual competition was organized by the Alumni Association of BPPIMT. The chief guest for the programme was Mr. Suparno Moitra, Former Regional Director NASSCOM. As a part of 10 years of the event, a quiz was organized between faculty and staff members; and alumni members. Among the groups who participated, only 3 groups from faculty and staff members; and 3 groups from alumni were selected for the final. One of the groups of the alumni was the champions.

### **Student Achievement**

Mr. Subhadip Dutta is granted a scholarship for amount of Rs. 5000 per month for two years from Ministry of Culture, Govt. of India, New Delhi for Rabindra Sangeet.

### **Grant received**

SPIE student chapter of BPPIMT has received a grant of \$2100 from USA for various activities.

---

## **CONVERGENCE OF ELECTRONICS, COMMUNICATION AND SIGNAL PROCESSING**



A two-day seminar on "Convergence of Electronics, Communication and Signal Processing" was organized by the Department of Electronics and Communication Engineering, BPPIMT during 31 October and 1 November 2014. The programme was inaugurated by the Principal; Prof. Dr. Sutapa Mukherjee on 31 October 2014. The objective of the seminar was to impart knowledge on different advanced areas of Electronics and Communication Engineering to the students. The list of speakers was a perfect blend of in-house and external experts. Prof. (Dr.) B. N. Chatterji, Dean (Academics), BPPIMT shared his research experience in a talk on 'Signal and Image Processing'. Prof. (Dr.) Debasish Chattopadhyay, Ex-Professor, University of Calcutta, discussed the fundamentals of Semiconductor Devices. The lecture

delivered by Dr. Abhirup Das Barman, Associate Professor, Institute of Radio Physics and Electronics, University of Calcutta, on 'Fading and Power Adaption in a Wireless Channel' was both enlightening and thought-provoking. Various perspectives of Optical fiber communication systems were discussed by Prof. (Dr.) Shila Ghosh, HOD (ECE), BPPIMT. Dr. Ivy Majumdar, Associate Professor, Department of ECE, BPPIMT, delivered a talk on Computer Communication, and Dr. Arijit Saha, Associate Professor, Department of ECE, BPPIMT, discussed on "Fundamentals of Electronic Communication". Mr. Surajit Mandal, Assistant Professor, Department of ECE, BPPIMT discussed the problem solving techniques in 'Circuits and Networks'. Mr. Panthadeb Saha, Assistant Professor, Department of ECE, BPPIMT, delivered a talk on 'An Overview of 16-bit Microprocessors'. The seminar was concluded with vote of thanks by Prof. (Dr.) Shila Ghosh, Faculty Advisor of SPIE Student Chapter and HOD (ECE), BPPIMT. The programme was coordinated by Mr. Surajit Mandal, Assistant Professor (ECE) and sponsored by SPIE Student Chapter, BPPIMT.

---

- **Editorial Committee:** The Editorial Committee consists of a team of Faculty Members headed by Prof (Dr.) N. K. Datta, with Prof (Dr.) B.N. Chatterji, Dean Academics as Chief Editor, Prof (Dr.) Sutapa Mukherjee, Principal as the Chief Advisor and Dr. Arijit Saha Associate Professor as Editor of the Newsletter.
- **Call for Contributions:** Contribution for the Newsletter on the global and national news related to technical, economical, philosophical and general science etc. is solicited from all the members of the BPPIMT family and the students. The prospective contributors are requested to send their writings in about 200 words electronically to the mail address: [bpimnewsletter@bpim.ac.in](mailto:bpimnewsletter@bpim.ac.in). Publication in the Newsletter is at the full discretion of the Editorial Committee.