



THE BPPIMT - NEWSLETTER

A Quarterly In-House Magazine
of

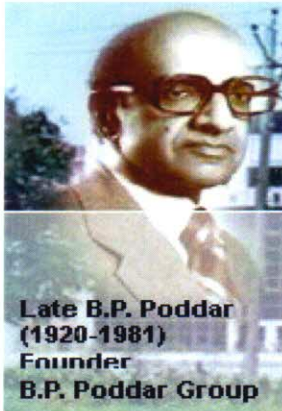
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**Late B.P. Poddar
(1920-1981)
Founder
B.P. Poddar Group**



Remembering Raj Chandra Bose



Raj Chandra Bose was born on June 19, 1901, at Hosangabad in Madhya Pradesh and grew up at Rohtak, where his father was doctor. R. C. Bose was a mathematician and statistician best known for his work in design theory, finite geometry and the theory of error-correcting codes in which the class of BCH codes is partly named after him. He also invented the notions of partial geometry, strongly regular graph, and started a systematic study of difference sets to construct symmetric block designs.

Pure mathematics had fascinated Bose from childhood. In 1925 no course in pure mathematics was available at Hindu College in Delhi. So he went to Calcutta. Bose continued to study securing first class in the M.A. examinations in pure mathematics at the University of Calcutta. His research was performed under the supervision of the geometry Professor Syamadas Mukhopadhyaya from Calcutta. Bose worked as a lecturer at Asutosh College, Calcutta. He published his work on the differential geometry of convex curves.

In 1932 came the turning point. His research in geometry came to the notice of P. C. Mahalanobis, who wanted a geometry scholar for the Indian Statistical Institute. Bose was reluctant to join the institute because he knew hardly anything about statistics. From 1935 he had a full-time position at the Indian Statistical Institute. In 1940 he joined the University of Calcutta. In 1945 Bose became Head of the Department of Statistics. He submitted his published

papers on multivariate analysis and the design of experiments and was awarded the D. Litt. in 1947.

In 1947 Bose went to the United States as a visiting professor at Columbia University and the University of North Carolina at Chapel Hill. It was not money that tempted him to leave his homeland. It was only because he was offered a job which enabled him to devote all his time to mathematics. Later he became Professor of Mathematics and Statistics at Colorado University. In the years at Chapel Hill, two of Bose's discoveries won him much fame. Working with one of his students, he proved that a famous mathematical conjecture of the eighteenth century Swiss mathematician, Leonard Euler, was incorrect. Then, in collaboration with another student, D.K. Ray-Chaudhuri, he discovered new codes for telecommunication, which is partly named after him as BCH code. In 1971, he retired at the age of 70. He then accepted a chair at Colorado State University of Fort Collins from which he retired in 1980. Bose died in Colorado, aged 86, in 1987. Many honours were bestowed on Bose both from his native country of India and from the United States. He received honorary degrees from the Indian Statistical Institute in 1974 and from Visva-Bharati University in Bolpur, West Bengal, India in 1979. In 1976 America's highest honour to a scientist came to Bose. He was elected Fellow of the US Academy of Sciences.

ACADEMIC NEWS:

Publications:

Books:

Pramathes Das, "Electrical & Electronic Measurement and Instrumentation", Publisher: J B Books and Learning, Kolkata, ISBN: 978-93-83010-06-6, April 2016.

Journals:

Arijit Saha, Kallol Bhattacharya, Ajoy Kumar Chakraborty, "Depolarization of polarized polychromatic beam during propagation in a birefringent medium", *Optik* **127** (15), pp. 5882-5886 (2016), ISSN: 0030-4026, Impact factor: 0.769 (indexed in both SCI, and Scopus).

Debashis De, **Anindita Ray**, Suchismita Mukherjee, Ananga



Mohan Sen, "Performance Analysis of Different Tree Structures in Heterogeneous Wireless Sensor Network", *IETE Journal of Research*, ISSN: 0377-2063 (Print), 0974-780X (Online), pp. 9, Impact Factor 0.284, April 2016.

Journals (online):

Dolon Champa Das, "Listen well to speak well: Strategies and solutions to overcome hindrances to listening", *International Journal of Innovation Sciences and Research*, **5**(6), pp. 791-794, ISSN: 2319-9369, Impact Factor 1.255, 30th June 2016.



Conferences:

Bikromadittya Mondal, Kushal Dey, Susanta Chakraborty, "An Efficient Reversible Cryptographic Circuit Design", *Proc. 20th VLSI Design and Test Symposium (VDAT-2016)*, IIT Guwahati, India, 24th-27th May 2016, pp. 234-239.

INSTITUTIONAL NEWS:

Patent received

Dr. Sandip Ghosh, Registrar & Associate Professor, Dept. of Chemistry has been granted a patent for an invention entitled "*Process for preparation of pH indicator solution and Test Kit to detect pH at low variation*". The invention describes a method of preparation of pH indicator solution for rapid and easy determination of pH in wide area of chemical and biochemical reactions in aqueous medium including Aquaculture and Effluent management. The specific composition with weight percentages of ingredients as defined are coherently capable of identifying pH of solutions in the entire range of pH 5.5 and 10.6 by virtue of colour difference and the said composition can indicate variations in pH as low as 0.30pH of solutions, by virtue of such colour difference which is the crux of the invention.

Students Publications

Sanjay Nag, **Satabdi Bhattacharya**, **Ranita Banerjee**, **Indra Kanta Maitra**, Samir Kumar Bandyopadhyay, "Pseudo-Grayscale technique: A pre-processing step towards pathological slide analysis", *European Journal of Biomedical and Pharmaceutical sciences*, **3**(5), pp. 385-390, 3rd May 2016, ISSN: 2349-8870, SJIF Impact Factor: 3.881 (online). Satabdi Bhattacharya and Ranita Banerjee are students of Dept. of Electronics & Communication Engineering.

Sanjay Nag, **Roshni Dasgupta**, **Sayan Dutta**, **Indra Kanta Maitra**, Samir Kumar Bandyopadhyay, "Edge detection of digitised histopathological slide images using dynamic thresholding", *European Journal of Pharmaceutical and Medical Research*, **3**(6), pp. 532 - 537, 30th May 2016, ISSN: 2394-3211, SJIF Impact Factor: 3.628 (online). Roshni Dasgupta and Sayan Dutta are students of Dept. of Electronics & Communication Engineering.

Participation:

Dr. Arijit Saha, Associate Professor, ECE Dept, **Ms. Madhumita Sarkar**, Assistant Professor, ECE Dept., **Dr. Soumya Paul**, Associate Professor and Head, Dept. of Computer Application, and **Ms. Inadyuti Dutt**, Assistant Professor, Dept. of Computer Application had attended and participated in the FDP on "Data Science" conducted by Cognizant Technology Solutions at Cognizant Technology Solutions Campus on 30.06.2016.

Prosaron

Mr. Arijit Dey, Assistant Professor, Dept. of Computer Application delivered talk on "Fan-out constraints in quantum dot cellular automata circuit design" on 22nd April 2016.

Dr. Esa Bose, Assistant Professor, Dept. of Basic Science delivered talk on "Transport and magnetic properties of low doped La_{0.875}Y_xCa_{0.125}MnO₃ manganite series" on 22nd April 2016.

World Telecommunication Day

A seminar was organized by the Dept. of Electronics & Communication Engineering, B P Poddar Institute of Management and Technology, on the occasion of World Telecommunication Day on 18th May 2016. Prof. Prosanta Kumar Basu, Professor, Calcutta University delivered a talk on "Telecommunication, birth, growth and future". Mr. Somnath Maity, Ex. GM (Planning), Calcutta Telephones, delivered a lecture on "Future trends in modern communication". The seminar was attended by the faculty members including Principal, Dean Academics, HODs and students. The lectures gave a great insight about the growth of telecommunication in India in the global perspective. Also research ideas surfaced from the lectures.

University Semester Exam

The semester examination of MAKAUT was held successfully from 6th-29th June 2016. Dr. Nandita Sanyal, Associate Professor, Department of Electrical Engineering was the officer-in-charge, and Mr. Balaram Ghosal, Assistant Professor, Department of Information Technology; and Mr. Abhijit Bhattacharya, Assistant Professor, Department of Computer Application served in the capacity of supervisors. Dr. Surajit Mandal Associate Professor, Department of Electronics and Communication Engineering, Mr. Arindrajit Chowdhury, Assistant Professor, Department of Electronics and Communication Engineering, Mr. Sudip Kundu and Mr. Suprabhat Maity, Assistant Professors, Department of Computer Science and Engineering, Dr. Papri Saha, Assistant Professor, Department of Engineering Physics were other committee members.

HackOn 101

An 8 hours mini **Hackathon** on Web and Mobile Development (PHP, Javascript, Android and IOS), and Embedded Technologies was organized by the Department of Computer Science and Engineering on 21st May 2016 to bring together the best and brightest coders with the drive to learn new things and create fantastic products. A total of 164 students registered out of which 68 were from other Institutes. The title sponsor was Cognizant Technology Solutions. The co-sponsors were Trendie, Codeblix.com, and Campuskarma.in of Kolkata.

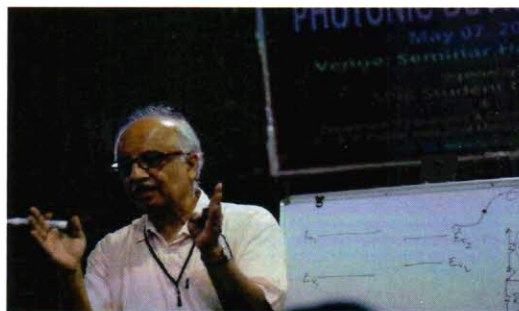
Seminar by SPIE student chapter



Prof. Biswanath Roy

Prof. Biswanath Roy, Professor Jadavpur University delivered a lecture on "Effect of Light in human life". Both the lectures were enjoyed by the students and faculty members.

A seminar was organized by the SPIE Students chapter of BPPIMT on 7th May 2016. The title for the seminar was "Photonic devices and VLSI". Prof. Susanta Sen, Professor, University of Calcutta delivered a talk on "Recent trends in VLSI technology" and discussed how the development in industry is dependent on VLSI technology.



Prof. Susanta Sen

ED Cell Activities

Director-Faculty Round Table Meet was organized at BPPIMT in the presence of Mr. Asgar Ahmed, Director, Student Entrepreneurship Education and Mr. Subhabrata Bhattacharjee, Regional Manager, NEN, on 1st April 2016. A discussion took place about opening an entrepreneurship course by Wadhvani Foundation NEN.

National Entrepreneurship Network Institutional Membership MOU was signed on 15th April 2016.

FOCUS OF NSS-SELF FINANCING UNIT (SFU) OF BPPIMT

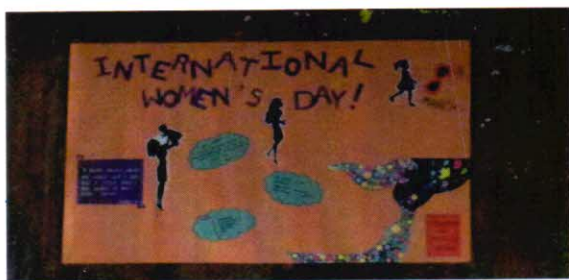


The National Service Scheme for Self Financing Unit (NSS-SFU) of B.P. Poddar Institute of Management and Technology started the journey in our Institute from 8th March 2016 to establish a meaningful linkage between the campus and the community. Since then programmes have been organized to create awareness on various public issues. NSS unit consists of 100 volunteers primarily the students from first and second year. A student enrolled as NSS volunteer will have to put in 240 hours for community work in a year for a period of two years. He/she is likely to participate in different programmes and projects under NSS.

The NSS scheme is aimed at developing the overall personality of the students through service to the community thereby helping them to emerge as responsible individuals encompassing the virtues of life. Since its inception, the Self Financing Unit has been a vibrant and active unit rendering service to the society and functioning as a regular feature in the realm of our education. It is a student-centered programme in which projects are implemented to render service in close collaboration with the community and thereby it provides vast scope for the students' interaction with the people. While interacting with the community the students learn many things and apply their practical knowledge for the upliftment of the community. Students through the NSS activities are engaged in actual work not only within the Institute campus but also their services extend to neighbouring schools and slums.

The aim of NSS is to develop a sense of service, team spirit and dignity of labour. The various programmes conducted by the NSS have brought about a remarkable change in their outlook and their attitude towards life and society. Programmes are also conducted in the college campus throughout the academic year giving importance to cleaning the premises, gardening, conservation of energy & water etc. Orientation classes are conducted to discuss different topics. Issues like unemployment problem, urbanization, challenges in higher education, Eco awareness, traffic awareness, information technology, human rights, etc. are the primary focus.

Some recent activities organized by NSS-SFU, BPPIMT:



Women's Day celebration on 8th March, 2016

presentation was delivered to create awareness about NSS cell and the NSS volunteers committee was formed.

To focus on some recent activities of the NSS-SFU, it has conducted Women's Day celebration on 8th March, 2016. A power point presentation showing the contribution of women achievers of India was displayed at the Institute seminar hall.

NSS orientation Program was organized on 29th March, 2016. During the program, an oral



Blood Donation Camp on 30th March, 2016

Blood Donation Camp was held in the campus on 30th March, 2016 in association with National Medical College & Hospital and N.R.S Medical College & Hospital. A total of 164 units of blood were donated by the Faculty & Staffs and Students of the Institute.

Earth Day was celebrated on 22nd April, 2016 in which poster and photography competition was organized to create awareness about importance to conserve the resources.

The winners of the competition were selected through voting and felicitated with a memento and certificate.



Earth Day celebration on 22nd April, 2016

World No Tobacco Day, 2016 awareness campaign was done on 31st May 2016. NSS volunteers of the cell provided bookmarks to the Faculty & Staffs and to the common people outside the college.



International Yoga Day on 21st June, 2016

To create awareness among people NSS cell members & volunteers shouted slogans and showed placards in front of the Institute as well as provided bookmarks to the public against the usage of Tobacco in any form. International Yoga Day was celebrated on 21st June, 2016. The day was celebrated by organizing a yoga session for Faculty & Staffs of B. P. Poddar Institute of Management & Technology to inspire them to practice Yoga.



World No Tobacco Day awareness campaign

- **Editorial Committee:** The Editorial Committee consists of a team of Faculty Members, with Prof (Dr.) B.N. Chatterji, Dean Academics as the Chief Editor, Prof (Dr.) Sutapa Mukherjee, Principal as the Chief Advisor and Dr. Arijit Saha Associate Professor as the 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: bppimtnewsletter@bppimt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.