



THE BPPIMT - NEWSLETTER

A Quarterly In-House Magazine
of

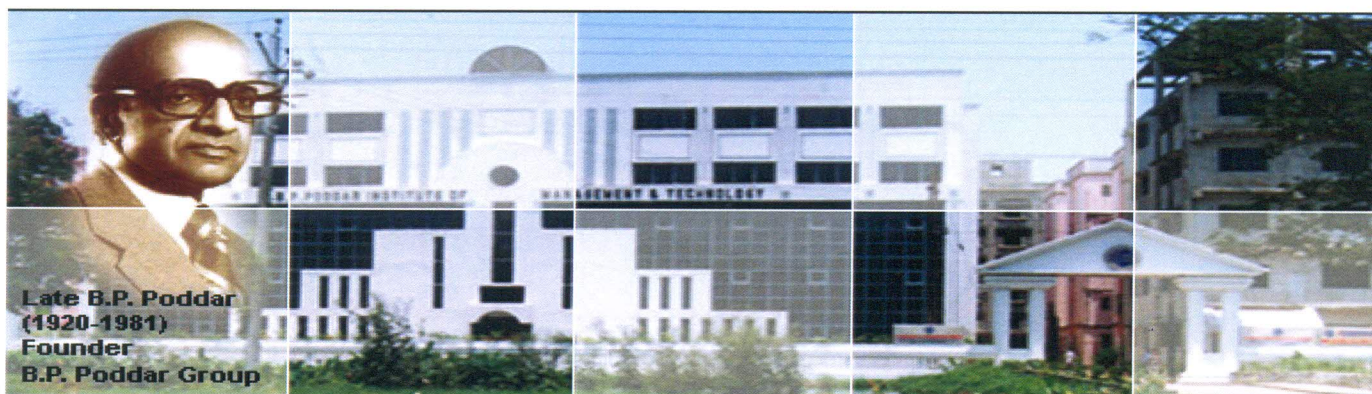
B.P. Poddar Institute of Management and Technology

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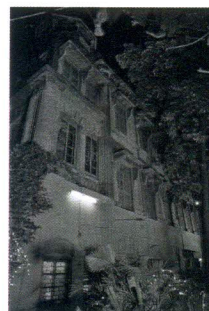
REMEMBERING SIR J. C. BOSE ON HIS 75TH DEATH ANNIVERSARY



J. C. Bose in Royal Institution, London



Sir J. C. Bose (centre) with students



Acharya Bhavan



Sir J. C. Bose

Acharya Jagadish Chandra Bose born on 30th November, 1858 was an Indian polymath: a physicist, biologist, botanist, archaeologist, as well as an early writer of science fiction. He pioneered the investigation of radio and microwave optics, made very significant contributions to plant science, and laid the foundations of experimental science in the Indian subcontinent. IEEE named him one of the fathers of radio science. He is also considered the father of Bengali science fiction. He was the first person from the Indian subcontinent to receive a US patent, in 1904. He also invented the crescograph. Sir Jagadish Chandra Bose was born in Bikrampur, Bengal, (now Munshiganj District of Bangladesh). Bose graduated from St. Xavier's College, Calcutta. He then went to the University of London to study medicine, but could not pursue studies in medicine due to health problems. Instead, he conducted his research with the Nobel Laureate Lord Rayleigh at Cambridge and returned to India. He then joined the Presidency College of University of Calcutta as a Professor of Physics. There, despite racial discrimination and a lack of funding and equipment, Bose carried on his scientific research.

He made remarkable progress in his research of remote wireless signalling and was the first to use semiconductor junctions to detect radio signals. However, instead of trying to gain commercial benefit from this invention, Bose made his inventions public in order to allow others to further develop his research. J.C. Bose was knighted in 1917 and became an FRS in 1920. Bose was not interested in making money. He could have made millions by simply patenting his inventions but more important for him was to spread knowledge. Towards this end, he had nurtured a lifelong dream of establishing an institute of excellence. Conceived at least twenty years earlier, the Bose Institute was inaugurated in Calcutta on November 30, 1917. *This is not a laboratory*, he had said, about his Institute, *but a temple*. Bose died on November 23, 1937, just a week short of his eightieth birthday.

Sir Neville Mott, who won the Nobel Prize in 1977 for his contributions to solid state electronics, went on record stating that, *J.C. Bose was at least sixty years ahead of his time.... In fact, he had anticipated the existence of P-type and N-type semi-conductors*.

- Prof. (Dr.) Sutapa Mukherjee
Principal BPPIMT

ACADEMIC NEWS:

Publications:

Books:

Arijit Saha published a book titled "Novel applications of chromatic behavior of birefringent networks" from Lambert Academic Publishing, Germany (January 2013), ISBN: 978-3-659-33981-3.

Journals:

L. Adhya, T. Mapder, and S. Adhya published the paper titled "Role of terminal dipole charges in aggregation of α -helix pair in the voltage gated K(+) channel" in *Biochimica Biophysica Acta*, Vol.1828, Issue 2, pp.845-850 (Feb 2013).

Soumya Paul, Inadyuti Dutt, and S.N. Chaudhuri published the paper titled "Design and implementation of network security using genetic algorithm" in *International Journal of Research in Engineering and Technology*, Vol.2, Issue 2, pp.172-177, (Feb 2013), ISSN: 2319-1163.

L. Adhya, T. Mapder, and S. Adhya published the paper titled "Electrostatic interaction between dipoles and side chains in the voltage sensor domain of K⁺ channel" in *Journal of Natural Science, Biology and Medicine* Vol. 4, Issue 1, pp. 45-50 (Feb 2013).

Sanjay Biswas, Momin Hossain Khan, Sudipta Pal, and **Esa Bose** published the paper titled "Evolution of magnetic properties in Cr doped manganites $Gd_{0.7}Ca_{0.3}Mn_{1-x}Cr_xO_3$ ($x=0.0-0.5$)" in *Journal of Magnetism and Magnetic Materials*, Vol. 328, pp. 31-34, (Feb 2013)

Inadyuti Dutt, Soumya Paul, and S.N. Chaudhuri published the paper titled "Implementation of network security using genetic algorithm" in *International Journal of Advanced Research in Computer Science and Software Engineering*, Vol.3, Issue 2, pp.234-241, (Feb 2013).

Soumya Paul, Inadyuti Dutt, and S.N. Chaudhuri published the paper titled "Network security implementation using genetic algorithm in WDM optical networks" in *International Journal of Electronics Communication and Computer Engineering*, Vol. 4, Issue 2, pp. 334-338, (Mar 2013), ISSN(Online):2249-071X.

Inadyuti Dutt, Soumya Paul, and S.N. Chaudhuri published the paper titled "Recovery management in all-optical networks using biologically inspired CAS", *International Journal of Electronics Communication and Computer Engineering*, Vol. 4, Issue 1, pp. 309-314, (Mar 2013), ISSN(Online): 2249-071X.

Soumya Paul, Inadyuti Dutt, and S.N. Chaudhuri published the paper titled "A novel approach for network security in WDM optical networks" in *International Journal of Engineering Science and Advanced Technology*, Vol.3, Issue 2, pp. 62-66, (Mar-April 2013), ISSN: 2250-3676.

Inadyuti Dutt, Soumya Paul, and S.N. Chaudhuri published the paper titled "Design and implementation of recovery management in



all-optical networks" in *International Journal of Engineering Science and Advanced Technology*, Vol.3, Issue 2, pp. 53-57, (Mar-April 2013), ISSN: 2250-3676.

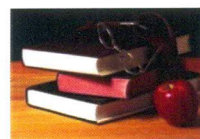
Conference:

L. Adhya, and T. Mapder published the paper "Computational Study of the Electrostatic Coupling of Membrane-spanning α -Helices Controlled by Dielectric Media" in *Proceedings of 4th International Conference on Bioinformatics Models, Methods and Algorithms*; Barcelona, Spain 11-14 February 2013, pp. 112

Momin Hossain Khan, Sudipta Pal, and **Esa Bose** published the paper, "Study of dielectric relaxation at room temperature of the composite (100-x)LCMO/(x) BTO" in *AIP Conf. Proc.* 1512, 974 (2013); doi: 10.1063/1.4791367.

L. Adhya, T. Mapder, and S. Adhya presented and published the paper "Electrostatics of Interaction of α -Helix Macrodipole with Lipid" Presented poster in the 'Lipid-Protein Interactions in Membranes: Implications for Health and Disease meeting' at Centre for Cellular and Molecular Biology (CCMB), 1-5 Nov 2013, Hyderabad, pp. 72.

L. Adhya, and T. Mapder presented the paper "Stability of the Paddle of the KvAP-VSD within the Bilayer at Zero Membrane Potential" in 100th Indian Science Congress at University of Calcutta, Kolkata, 3-7 January, 2013.



Invited Lectures:

Dr. Lipika Adhya, Associate Professor, Engineering Physics Department has been Invited as International Conference Speaker in 4th International Conference on Bioinformatics Models, Methods and Algorithms" at Barcelona, Spain 12th February 2013. She received International Travel Grant from DST-SERB, Govt. of India, to attend the said International Conference on Bioinformatics- Methods, Model and Algorithm at Barcelona, Spain 11-14 February 2013

Surajit Mandal, Assistant Professor, ECE Department delivered an invited talk on "Optical fiber communication and photonics" in the seminar Nano-technology, Electronics & Photonics, at IMPS College of Engineering & Technology, Malda on 24th March 2013.

Completion of Doctorate Degree:

Arijit Saha, Associate Professor of ECE Department has been awarded Ph.D. (Technology) from University of Calcutta on 9th January 2013.

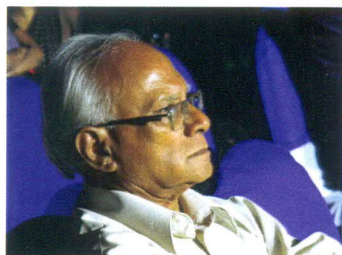
Participation:

Ms. Nandita Sanyal, Associate Professor, EE department, Mr. Mousam Chatterjee, Mr. Arindrajit Chowdhury, Ms. Banhi Dutta Chowdhury, Ms. Sujata Pal, Assistant Professors of ECE department, and Mr. Bikromaditya Mondal, Mr. Suprabhat Maity, Assistant Professors of CSE department participated and completed successfully the Advanced Faculty Training Programme on Digital Signal Processing Speech & Image Processing" organized by C-DAC, Kolkata for a period of two weeks from 31st December 2012 to 11th January 2013.

OBITUARY

We deeply mourn the sad demise of our former Principal Professor (Emeritus) Subhash Chandra Chakravarty on 1st March 2013. He was one of the senior most members among the faculty and the father figure of our Institute. Professor Chakravarty joined this institute as Head of the Department, Engineering Physics on 31st December 1999. Before joining this institute he retired from the service as Professor of Physics, Regional Engineering College, Durgapur (now NIT) in 1998. Professor Chakravarty had an illustrious academic career; received university Gold Medal for M. Sc in Physics, did M.S. from University of Windsor, Canada and Ph.D. in Experimental High Energy Physics from University of Ottawa, Canada.

He had published a number of research articles in National and International journals or reputed and conferred membership by reputed organizations. He was the president of Indian National Science Congress (Engg. Sc) in 1978.



Prof. S. C. Chakravarty



Receiving award from the chairman



In a conference



Lighting the lamp

During his tenure in this institute Professor Chakravarty served as Head of the Department, Engineering Physics and as Principal from 21st September 2005 to 25th November 2009. He was a man of high integrity and commitment and led his life as an example to others. Whenever situation demanded in this institute he accepted the challenge with utmost sincerity and performed. His contribution to this institute shall always be remembered with highest regard. His sudden death has shocked all of us. Shakespeare said, "All that live must die, passing through nature to eternity". So death is a statement that has to be honoured only with humility. But as Marcus Tullius Cicero (106-43 BC) Writer, politician and great roman orator said "The life of the dead is placed in the memory of the living", we hope Professor Chakravarty's ideals would remain a guideline for us to carry forward. In this sad moment we pray his family members get strength to bear with the burden of loss.

INSTITUTIONAL NEWS:

Faculty Seminar Program "PROSARON"

- Dr. Arijit Saha, Associate Professor, ECE Dept. has delivered a talk on "A zero-order achromatic quarter-wave plate for visible spectrum" in Prosaron on 11th January 2013 in the Institute Seminar hall.
- Mr. Surajit Mandal, Assistant Professor, ECE Dept. has delivered a talk on "Frequency response characteristics of a birefringent lens under broadband illumination" in Prosaron on 11th January 2013 in the Institute Seminar hall.
- Mr. Kunal Das, Assistant Professor, IT Dept. has delivered a talk on "Diverse docking strategy in MCQ" in Prosaron on 5th February 2013 in the Institute Seminar hall.
- Dr. Papri Saha, Assistant Professor, Engineering Physics Dept. has delivered a talk on "Lyapunov exponent diagrams of Mackey-glass system" in Prosaron on 12th April 2013 in the Institute Seminar hall.

Commencement of Even Semester

The even semester classes for all the streams started from 22nd January 2013.

MODROBS

The Information Technology department of our Institute has been granted a sum of ten lakh rupees by AICTE for the MODROBS project. Computer Lab I has been selected for the modernization program. The chief coordinator for the project is Dr. Sabnam Sengupta, Associate Professor and HOD of IT department.

DST-SERB Project

Dr. Lipika Adhya, Associate Professor, Engineering Physics received a grant Rs. 15 Lakh from DST-SERB, Govt. of India for the three year ongoing project (2011-2014).

New responsibility

- Dr. Ananya Kanjilal, Assistant Professor, CSE took over the charge as Departmental-in-charge of CSE department from 7th March 2013 onwards.
- Dr. Ranjana Goswami, Associate Professor, Engineering Physics took over the charge as Head of the department of Basic Science from 26th March 2013 onwards.

Student Achievement

Arkadev Roy, 3rd year student, CSE department has been selected for two and half months summer internship program which will be held at Hyderabad, by Microsoft India Development Program.

Wall Magazine



Ancient India was a land of sages, saints and seers as well as a land of scholars and scientists. The students of the Department of Information & Technology have taken initiative to celebrate ancient Indian Inventions and Innovations through the wall magazine 2013 "Aviskar". The wall magazine was published by the Department in the graceful presence of the Dean, Academics, Prof. B. N. Chatterji on March 19, 2013



Saraswati Puja



The Saraswati Puja was celebrated with usual gusto and mirth at BPPIMT on the 15th February 2013. The goddess of knowledge and divinity was worshipped with love, devotion and plenty of enjoyment as the students and staff flocked the venue to offer their reverence in the form of "Pushpanjali". The students very enthusiastically involved themselves in the Puja preparations and decked up the Idol and the venue wonderfully. The occasion which marks the onset of spring bloomed in lovely colours resonating with the mood of the students who thronged the Institute. The occasion was wrapped up with a Lunch gathering. On the following day the idol was immersed in the Ganges after performing the prevailing rituals

Abhigyan 2013

Like the previous version of Abhigyan 2012 this year too the event Abhigyan 2013 was held with a lot of zeal on 16th and 23rd March. The event started with the introductory lecture of Prof. (Dr.) Shila ghosh, HOD ECE followed by a speech by Mr. Surajit mandal, Assistant Professor, ECE. Then the event of Quiz started conducted by the quiz master, Dr. Esha Bose, Assistant Professor, Physics. The next event was *Robotix Grant* which has been introduced in SPIE from 2013. The event was basically for inspiring the young talents of our college for active participation in technical events and developing skills on practical knowledge. The event ended with the prize distribution ceremony to the winners and runners-up for the quiz competition.



The champions



The event



The runners-up

PATW-2013



Inauguration of PATW

The inauguration ceremony of PATW-2013 was held in our Institute on 16th March 2013. PATW is a three level competition organized by IRT-UK to encourage young, aspiring, budding engineers to showcase their skills and technical knowhow. The three stages are Regional level, National Level and International Level. The Regional Level competition was organized by IET YP Section Kolkata Local Network from 16th March to 2nd April 2013. Four Engineering Colleges of West Bengal have been selected as venues of Technical Session. Prof. (Dr.) Sutapa Mukherjee, Principal, BPPIMT was a member of the advisory panel and Ms. Tista Banerjee, Asst. Prof. (EE) was the joint Secretary of regional level programme. Twelve students from BPPIMT took part in



A student delivering lecture

the competition. Four of them qualified for contesting in the final round of the Regional Level competition which was held at MCKV Institute on 2nd April 2013. Among them Abhishek Dey (CSE) presented a paper titled "Cloud Computing", and was selected as best speaker and short listed for participation at National Level competition.

E-Week



National Entrepreneurship Week was observed on 9th February 2013 in our institute. The theme for this year was 'Innovating for India'. The programme was inaugurated by our Principal Prof. (Dr.) Sutapa Mukherjee, who delivered the welcome address. NEN Consultant delivered a motivational speech and explained the theme and the purpose of entrepreneurship right from the student. E-Leaders, who participated in a workshop in IIM Joka, shared their experience. The program was ended by vote of thanks, given by Mr. Soumya Paul, coordinator of E-cell, BPPIMT. The ceremony was attended by dignitaries, Heads of the department, faculties and students of the institute. A programme, 'Be a Media Jockey' was successfully performed by the students who also participated in business plan presentation.

t2 MyCoollege



After a month long battle, BPPIMT emerged the winner of the t2MyCoollege contest organized by The Telegraph. The 'cool college' won with 1628 'likes', beating Ramakrishna Mission Residential College, Narendrapur, and NIT-Durgapur which came second and third. Principal Prof. Dr. Sutapa Mukherjee and the students were felicitated with a trophy and certificate on 2nd April 2013.



Industry-Institute Partnership

A MoU has been signed between B. P. Poddar Institute of Management & Technology and Infosys Technologies regarding Campus Connect Program from February 2013 to January 2015. The SPOC of the program is Mr. Sandeep Dutta, Head, Training & Placement and corporate relations.

- **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: bpimtnewsletter@bpimt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.