



THE BPPIMT - NEWSLETTER

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B.P. Poddar Institute of Management and Technology

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Remembering Meghnad Saha-The Great Astrophysicist



'Meghnad Saha's place in the history of astrophysics and in the history of modern science in India is unique', wrote Subrahmanyan Chandrasekhar (1910-95). Saha's theory of thermal ionisation, which explained the origin of stellar spectra, was one of India's most important contributions to world science during the 20th century. It was an epoch-making discovery. Arthur Stanley Eddington (1882-1944), while writing on stars in the Encyclopaedia Britannica, described Saha's theory of thermal ionisation as the twelfth most important landmark in the history of astronomy since the first variable star (Mira Ceti) discovered by Saha made important contributions in different branches of physics.

It was Saha who first started the teaching and training in nuclear physics in the country. The first cyclotron in the country was built with Saha's initiatives. Saha was a great institution builder. Among the institutions that he built were: National Academy of Sciences, India, at Allahabad, Indian Physical Society, Kolkata, National Institution of Sciences of India. Saha was an active member of the National Planning Committee constituted by the Indian National Congress in 1938 with Jawaharlal Nehru as its Chairman.

He was the Chairman of the Indian Calendar Reform Committee constituted by the Council of Scientific and Industrial Research in 1952. He was an elected Independent Member of the Indian Parliament. He advocated large-scale industrialization for social development.

Meghnad Saha was born on October 06, 1893 in the village of Seoratali in the Dhaka (then Dacca) district (now in Bangladesh) of undivided India. He was the fifth child of his parents, Jagannath Saha and Bhubaneswari Devi. At the age of seven, Saha joined the village primary school and from the very beginning he demonstrated an unusual aptitude for learning. He had his initial schooling at Dhaka Collegiate School, and later moved to Dhaka College. He was also a student at the Presidency College, Kolkata; a professor at Allahabad University from 1923 to 1938, and thereafter a professor and Dean of the Faculty of Science at the University of Calcutta until his death in 1956. He became Fellow of the Royal Society in 1927. He was president of the 21st session of the Indian Science Congress in 1934. Meghnad Saha's best-known work concerned the thermal ionisation of elements, and it led him to formulate what is known as the famous 'Saha equation'.

ACADEMIC NEWS:

Publications:

Journals:

M. H. Khan, S. Pal, **E. Bose** published the paper titled "Nonlinear behavior and universal scaling of ac conductivity in $(100-x)$ $\text{BaTiO}_3/(x)$ $\text{La}_{0.7}\text{A}_{0.3}\text{MnO}_3$ ($\text{A} = \text{Pb/Ca}$) composites" in *Phys. Scr.*, **89**, 025802 (Jan 2014), Impact factor: 1.032, ISSN: 1402-4896.

Surajit Mandal published the paper titled "Evaluation of polychromatic image quality of a birefringent lens by means of optical transfer function" in the *International Journal Optik*, **125** (1), 121-125 (Jan 2014), Impact factor: 0.769, ISSN: 0030-4026.

S Biswas, M. H. Khan, S. Pal, **E. Bose** published the paper titled "The effects of Mn substitution on magnetization reversal properties in $\text{Gd}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ " in *J. Supercond. Nov. Magn.* **27** (2), 463-468 (Feb 2014), Impact factor: 0.702, ISSN: 1557-1939.

M. H. Khan, S. Pal, **E. Bose** published the paper titled "Nature of temperature- and magnetic-field-dependent conduction mechanism in electron-doped $\text{Ca}_{0.85}\text{R}_{0.15}\text{MnO}_3$ ($\text{R} = \text{Pr, La}$) manganites" in *Phys. Status Solidi (b)*, **251** (3), 559-564 (Mar 2014), Impact factor: 1.489, ISSN: 1521-3951.

Binoy K. Biswas, Asish Bandyopadhyay and Pradip K. Pal published the paper titled "A study on quality of weld in flux cored arc welding Process" in *Int. J. Precision Technology*, **4** (1-2), 81-95 (Apr 2014), ISSN 1755-2060 (Print), 1755-2079 (Online) (without impact factor).

Conference:

Tista Banerjee, Sumana Choudhuri, Kaushik Das Sharma published the paper titled "Speed Tracking Scheme for FOC based Induction Motor by Fuzzy Controller" in *International Conference on Control, Instrumentation, Energy & Communication (CIEC)*, 121-125, ISSN: 978-1-4799-2043-3 (Jan 2014).

Kunal Das, Debashis De, Sayantan Ghatak, and Mallika De published the paper titled "Re-programmable logic array for logic design and Its reliability analysis in QCA" in *Emerging Trends in Computing and Communication*, Springer **298**, 2014, 341-352, ISSN: 978-81-322-1816-6 (Mar 2014).

Dipannita Podder, **Kunal Das**, Debashis De, and Mallika De published the paper titled "Realization of bi-quinary coded decimal adder in quantum dot cellular automata" in *Emerging*



Trends in Computing and Communication, Springer **298**, 2014, 353-362, ISSN: 978-81-322-1816-6 (Mar 2014).

Arijit Dey, Kunal Das, Debashis De, and Mallika De published the paper titled "Online testable conservative adder design in quantum dot cellular automata" in *Emerging Trends in Computing and Communication*, Springer **298**, 2014, 385-394, ISSN: 978-81-322-1816-6 (Mar 2014).

Gitosree Khan et al published the paper titled "A probabilistic model for analysis and fault detection in the software system: An empirical approach" in *Emerging Trends in Computing and Communication*, Springer **298**, 2014, 253-265, ISSN: 978-81-322-1816-6 (Mar 2014).

Rupa Pal published the paper titled "Calculation of bridge function and thermodynamic properties of Lennard-Jones fluid using integral equation theory" in *Emerging Trends in Computing and Communication*, **298**, 395-406; ISSN 978-81-322-1816-6 (Mar 2014).

Recognition:

Prof. Dr. B. N. Chatterji, Academic Dean, BPPIMT delivered the Plenary lecture on "Content based retrieval of texture images" and chaired a Technical session in the 5th International Conference on Signal and Image Processing ICSIP 2014 at Bangalore during January 8-10, 2014.



Invited Lecture

Mr. Pramathesh Das, Associate Professor and HOD, EE Dept. has been invited by Intech Corporation, Kolkata to deliver lecture on "Interlock & Protection system of process plant" The lecture was delivered on 13th January 2014 in their auditorium.

Participation

Dr. Kakali Karmakar (Sur) and Ms. Rikhiya Dhar attended TEQIP-II sponsored short term course on "Mathematics : its Role and Application in Engineering and Technology" (MRAET 2014) Dated 13-17 January, 2014 organized by Department of Mathematics, National Institute of Technology(NIT), Durgapur.

Soumya Paul, Associate Professor and Head of Dept. of Computer Application has attended and participated one day Seminar on Norbert Wiener, Cybernetics, Humanity & Technology, organised by CSI Kolkata Chapter and Division II (software), IEEE Computer Society India Council & ISI Kolkata at ISI Kolkata on 07.03.2014.

INSTITUTIONAL NEWS:

Commencement of Even Semester

The even semester classes for all the streams started from 15th January 2014.

Saraswati Puja

Like every year, Saraswati Puja was celebrated on 4th Feb, 2014 with usual colour, devotion and mirth by the student fraternity of B. P. Podder Institute of Management and Technology. The students in their revelries were joined by the staff and the faculty members which marked the juncture as yet another event of BPPIMT family. Festive decor, religious rites, Pushpanjali, Distribution of Prasad (the pious offerings to God of Knowledge and wisdom in form of fruits and sweets) were high points of the occasion. To add a flavor of completeness to the occasion, lunch was arranged for all. The following day, the idol was immersed in the Ganges after performance of prevailing rituals.

Seminar

A seminar on "Higher studies in France including availability of scholarship" was delivered by Mr. Amitava Das, Campus France Education Advisor and Education Section-in-Charge French Embassy.

Cricket Tournament

The Intra-College Cricket tournament was held during 4th - 8th March 2014 at Sports Authority of India (SAI) Complex, Netaji Subhas Eastern Centre, Saltlake City. Students from five departments (ECE, EE, CSE, IT and MCA) of V.I.P. Road campus and two departments (BBA & BCA) of second campus at Saltlake participated in the tournament. Seven teams were divided into two groups (Group A and Group B) and league matches were played between them. The final match was played between CSE and ECE on 8th March, 2014 at 1 p.m. and CSE became the champion beating ECE by 6 wickets. Sayan Saha of CSE dept., 4th yr. became Man of the match and Santosh Srivastava of IT dept. became Man of the Tournament. Prize distribution ceremony took place on 12th April, 2014 at the Institute.

One day Seminar

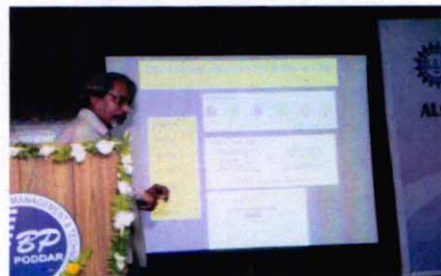
A one-day Seminar on "Algorithms and its Applications" (SAA 2014) was organized by the department of Computer Science and Engineering on 19th February, 2014. Prof. Subhansu Bandyopadhyay, Department of Computer Science & Engineering, University of Calcutta delivered an enlightening talk on "Top 10 Algorithms of the 20th Century". Prof. Bhargab B. Bhattacharya, ACM unit, Indian Statistical Institute, Kolkata shared his research experience in a talk titled "Recent Advances in Algorithmic Microfluidics for Labs-on-a-Chip". The application of algorithm in the field of Software Engineering was discussed in a talk titled "Software Testing to Defect Prediction: An Approach towards Optimization", by Dr. Ananya Kanjilal, HOD, Dept. of CSE, BPPIMT. Mr. Arkadev Roy, student of 4th Year CSE, BPPIMT shared his experience as an intern in Microsoft. A student event 'ABIT-WIZE' for puzzle solving and general knowledge broadly based on analytical reasoning of algorithms was organized and coordinated by Mr. Suraj Prasad, Student, 3rd year, CSE. The seminar was concluded with vote of thanks by the Convener, Dr. Ananya Kanjilal.



Prof. Subhansu Bandyopadhyay



Delegates on the dais



Prof. Bhargab B. Bhattacharya

YAPPON



Lighting of diya

"YAPPON" a coding event was organized by EDUKINECT in association with Microsoft in our college. It was the final event of a weeklong Microsoft certified training program where the students participated with full of enthusiasm. The students prepared quite a few unique applications. It was all about learning and having fun whole night. The event required tenacity and loads of energy and the students had both of it in abundance. At the end of the programme they received certificates and the top three teams (each consisting of four to five members) received cash prizes. Students also organized a small cultural programme during the event.



Winners with the principal

Annual Sports



Long jump

Annual Sports 2014 of our institute was held on 8th March 2014 at Sports Authority of India (SAI) Complex Athletic ground, near Yuba Bharati Krirangan. Students, faculty and staff members of V.I.P. Road campus and Saltlake campus participated in the Annual Sports. Different events took place like 100 m, 200 m, and 400 m relay race, long jump, shot put were the main attractions for the boys. For the girls the events were 100 m, and 200 m race, long jump, shot put, musical chair. There were also different events for the faculty. For male faculty there were 100 m race, long jump, shot put, hit the wicket, and kick off. The events for the female faculty and staff



100 m race of students

members were 50 m race, shot put, musical chair, and ball in the bucket. Prize distribution ceremony took place on 12th April, 2014 at the Seminar Hall of BPPIMT. HODs of different departments handed over the medals and certificates.

E-Week-2014



The Entrepreneurship week (E-week 2014) was celebrated in our campus during 4th - 8th March, 2014. The E-week was inaugurated on 4th March by our Principal Prof. (Dr.) Sutapa Mukherjee. The key note address was delivered by Mr. Arijit Bhattacharya, Founder and CEO of Virtual Infocom. He shared his experience as an entrepreneur to encourage the students in entrepreneurial activities. On 5th March 2014 there was a panel discussion on the theme topic "Innovating for India". Panelists were Mr. Asit Choudhury Manager, DIC, Govt. of West Bengal, Mr. Pramathes Das (H.O.D, Electrical Engineering, BPPIMT & Coordinator E.D. Cell) and Mr. Abhijit Gupta, Assistant Prof. (Management Dept, BPPIMT & E.D. Cell Member). The session was moderated by Dr. Esa Bose, Assistant Prof. (Engg. Physics Dept.). On 6th March there was a Poster Presentation competition by students on Social Entrepreneurship. The grand Finale

and Prize Distribution Ceremony of E-Week 2014 of National Entrepreneurship Network (Eastern Zone) was held on 8th March at IEM Salt Lake. Our college received a Trophy and Certificate of Appreciation of Honor Roll for Entrepreneurship Development Activities from NEN.

National Conference: ETCC 2014

A National Conference on *Emerging Trends in Computing & Communication* (ETCC 2014) was organized by the Department of Information Technology, B. P. Poddar Institute of Management & Technology, on March 22-23, 2014, at Hotel Pride, Kolkata. The conference was technically sponsored by IEEE and Computer Society of India, Kolkata chapters. The conference proceedings were published by Springer under the book series "Lecture Notes in Electrical Engineering". The proceedings of ETCC 2014 are available in print format from international organizations, like amazon.com, Barnes & Noble, and are also available in different electronic (e-book) formats, like Amazon Kindle.

Distinguished personalities from institutes of national and international repute have graced the conference with their esteemed presence and lectures on various emerging domains. Prof. Dwijesh Dutta Majumder, Professor Emeritus, Indian Statistical Institute had been the chief guest of the conference. Prof. Partha P. Das, IIT Kharagpur delivered the first keynote lecture and Prof. Swapan Bhattacharya, Director, NIT Surathkal delivered the keynote lecture 2. In addition to that, there had been plenary sessions by Prof. Nabanita Das, ISI Kolkata, Prof. Aditya Bagchi, ISI Kolkata and Prof. K. P. Ghatak, NIT Agartala. Prof. B. N. Chatterji, Dean Academics, BPPIMT, had chaired the plenary sessions. Other than that, there had been invited lectures by Prof. Indranil Sengupta, IIT Kharagpur, Prof. Nabendu Chaki, University of Calcutta, Dr. Anirban Sarkar, NIT Durgapur, Dr. Debashis De, WBUT, Kolkata, Dr. Ananya Kanjilal, BPPIMT, Dr. Tanay Chattopadhyay, WBPDC, Prof. B. P. Sinha, ISI Kolkata and Prof. Samiran Chattopadhyay, Jadavpur University, Dr. Rituparna Chaki, University of Calcutta, were also present during the conference. There were total 49 papers, including 7 papers in the poster presentation category.



Inauguration of proceedings



Lighting of diya



Presentation of paper

Wall Magazine



To nurture the creativity of the students, the department of Information Technology has published the wall magazine on March 21, 2014. The students have taken this opportunity to showcase their creative talent and to carve out a special niche for themselves. This year the wall magazine committee thought of going a bit off road and tries some experimentation. The concept was to connect technology and the nostalgia of both the present and past generations. The comic based wall magazine would appeal to the technocrats as well as the comic fans. The attempt ended up with the wall magazine name, "TECH-TONICS"a solution to our childhood questions.

ELIXIR 2014



Battle of Bands

The Inauguration Program of cultural fest *Elixir 2014* took place on 11th March 2014 at Axis Mall, Rajarhat. Various cultural events like *Rock-O-Calypse*, *Fashionista* and DJ night were the main attractions of the inaugural day. The Grand Finale of the inter-college fashion show *Fashionista* received a lot of applause from the audience. The 2nd prize for the fashion show was bagged by the host institution. Different intra college and inter college cultural competitions took place at the campus for the next two days.



Group dance by our students

Singing competition *Encore*, Theatrics competition *Another Broadway Story*, dancing competition *Just Dance*, instrumentals *Rapsody*, three minutes to fame *Show Stopper* were the events where there was an overwhelming participation and enthusiasm within the students. Nobody can forget the amazing flute and its musical compositions that brought a tear to everyone's eyes. Other than these, there were off-stage events like Photography competition *Candid*, Treasure Hunt competition *Sherloc Says*, Celebration of colours *Rang De Basanti*, *Masquerade* which were enjoyed by the participants with great enthusiasm at the Swabhumi Exhibition Grounds.



Fossils performing

On 15th March, 2014, the final day of *Elixir 2014*, the grand and gala showdown was celebrated at Swabhumi Exhibition ground. The 1st and 3rd positions were bagged by BPPIMT in Group dance competition *Break Free*. This was followed by the live performances of two bands. Performance of charismatic Aditi Singh Sharma and rock band *Fossils* were the star attractions of the day. The performances stole the heart of the audience and the event concluded on a high note. The event was organized in association with t2 and Cognizant and was powered by MTS.

- 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. Publication in the Newsletter is at the full discretion of the Editorial Committee.