

Dr. Wriddhiman Ghosh (Microbiology) delivered a lecture entitled "345 Enrichment during Chemotrophic Sulfur Oxidation by Bacteria" at the Goldschmidt conference 2013 held between 25th and 30th August 2013 at Florence, Italy.

Dr. Dhruba Gupta (Physics) visited Institut de Physique Nucleaire, Orsay, France, for research collaboration and delivered an invited talk on December 14, 2012; visited CERN, Geneva, Switzerland and delivered a talk at the ISOLDE Workshop and Users Meeting, December 17-19, 2012. An experiment at CERN-HIE-ISOLDE (CERN-INTC-2012-049, INTC-P-350) proposed by Dr. D. Gupta and Dr. S. K. Saha of Physics Department of Bose Institute has been approved. This is the first Indian proposal to be approved at HIE-ISOLDE at CERN, Geneva.

RECENT AWARDS AND HONOURS

- Prof. Sibaji Raha**, Director, Bose Institute, has been unanimously reelected as Vice Chair of the FAIR International Council, Germany, for a second term of two years beginning November 30, 2013.
- Dr. Banabihari Giri** (Central Instrument Facility) has been awarded the Ramanujan Fellowship by the Department of Science and Technology, New Delhi.
- Prof. Subrata Majumdar** (Division of Molecular Medicine) has been elected (i) Fellow of West Bengal Academy of Sciences: Dec., 2012; and (ii) Fellow of National Academy of Science, Allahabad, 2013. He has also received Governor of WB nominated Sevasree award from South Calcutta Sports and Cultural Society 2013.
- Dr. Sonali Sengupta**, *Staff Scientist* (Division of Plant Biology) has been awarded the "INSA Medal for Young Scientists" for 2013 from the Indian National Science Academy (INSA).
- Arunava Mandal** (Division of Plant Biology) was recipient of Student Travel grant award, American Society for Virology (ASV) 32nd Annual Meeting - July 20-24, 2013 at Penn State University, State College, Pennsylvania.
- Arunava Mandal and Dr. Pallob Kundu** (Division of Plant Biology) won best poster awards in the plant science category at the 100th Indian Science Congress, Kolkata, January, 2013 for Transcriptional regulation of a cell expansion gene upon Tomato Leaf Curl virus infection.
- Dr. Arun Kumar Chakraborty** (Librarian) received "ILA-P.N. Kaula Best Librarian Award-2012" from Indian Library Association (ILA) for his distinguished and dedicated services to the library profession. The award was conferred during the 58th ILA Conference during 24-27 February, 2013, held at the Department of Library and Information Science, Karnataka University, Dharwad.

RECENT Ph. Ds. (From April 1, 2012 to March 31, 2013)

- Shri Jaspreet Singh Grewal (Biochemistry) Novel proteins that regulate chromosome segregation and cell division in *Entamoeba histolytica*. Supervisor: Prof. A. Lohia
- Ms. Debadrita Mukherjee (Biochemistry) Studies on Vibrio cholerae Transcription Activators, HlyT and HlyU. Supervisor: Prof. P. Chakrabarti
- Shri Amitava Bandhu (Biochemistry) Studies on the operator DNA binding capacity of the repressor of temperate mycobacteriophage L1. Supervisor: Prof. S. Sau
- Shri Goutam Guchhait (Division of Molecular Medicine) Synthesis of oligosaccharides corresponding to the bacterial cell wall polysaccharides. Supervisor: Dr. Anup Kumar Misra
- Ms. Parna Bhattacharya (Division of Molecular Medicine) Arabinosylated lipoarabinomannan (ARA-LAM) induced protection against visceral leishmaniasis (VL): Involvement of signalling parameters in the disease process. Supervisor: Prof. Subrata Majumdar
- Ms. Madhuvanti Chatterjee (Division of Plant Biology) Towards characterization and understanding of mechanism of induction of some promising gene(s) of *Sinapis alba* L. on infection with the fungal pathogen *Alternaria brassicicola*. Supervisor: Dr. D. Basu

- Shri Ramdeep Kaur Grewal (Division of Plant Biology) An endeavour towards understanding the host-pathogen interaction for bacterial leaf blight of rice. Supervisor: Prof. Sampa Das
- Ms. Basabdatta Das (Division of Plant Biology) Genetic Diversity Analysis of a Set of Rice Landraces using DNA markers. Supervisor: Prof. Tapas Kumar Ghose
- Shri Samik Sengupta (Division of Plant Biology) Genetic Diversity Analysis in Papaya (*Carica papaya* L.) using DNA markers. Co-Supervisor: Prof. Tapas Kumar Ghose
- Shri Subrata Kundu (Division of Plant Biology) Identification and characterization of proteins implicated in Mungbean Yellow Mosaic India Virus resistance in *Vigna mungo* through proteomic approach. Supervisor: Prof. Amita Pal
- Shri Jayadri Sekhar Ghosh (Division of Plant Biology) Molecular characterization of a genotype specific marker in *Bambusa balcooa* and phylogenetic relationships assessment of tropical bamboo species based on ITS sequences of nuclear ribosomal DNA. Supervisor: Prof. Amita Pal
- Ms. Lekha Bandopadhyay (Division of Plant Biology) Exploring the defence response of *Rorippa* sp. the wild crucifer challenged by the mustard aphid *Lipaphis erysimi* through functional genomics. Supervisor: Prof. S. R. Sikdar
- Suranjana Roy (Division of Plant Biology) Assessment of phenotypic and genotypic diversity of Indian Sesame (*Sesamum indicum* L.). Supervisor: Prof. P. K. Saha, Co-Supervisor: Dr. D. Basu
- Shri Arnab Basu (Microbiology) An investigation into the structure function relationship and evolution of a novel class of replication proteins represented by the Mycobacterial plasmid pAL5000 replication protein RepB. Supervisor: Prof. Sujoy K. Das Gupta.

GRANTS RECEIVED

The following research proposals have been granted to the Bose Institute during the last one year by different funding agencies. The title of the project, funding agency involved, principal investigator, amount of grant and duration of the projects are indicated.

- Functional characterization of the lipid-binding FYVE protein from *Giardia lamblia***; CSIR; Dr. Srimonti Sarkar (Biochemistry); ₹.23,18,600; 3 years.
- Mechanistic insights into dendritic cell maturation and its role in *Leishmania donovani* infection : Emphasis on dendritic cell-based anti-leishmanial therapy**; CSIR; Prof. Subrata Majumdar (Division of Molecular Medicine); ₹.18,88,600; 3 years.
- Understanding Causes of Codon Usage Bias in Organisms**; DBT; Prof. Tapash C. Ghosh (Bioinformatics Centre); ₹.10,86,000; 2 years.
- Remodeling the cellular calcium homeostasis by ethyl-4-(3-nitro)-phenyl-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate (Nifetepimine): a mechanistic approach towards cancer regression and immune rejuvenation**; DAE; Prof. Parimal C. Sen (Division of Molecular Medicine); ₹.26,14,250; 3 years.
- Quantum entanglement & distributed quantum information processing**; SERB (DST); Dr. Somshubhro Bandyopadhyay, (Physics); ₹.26,53,274; 3 years.
- Understanding molecular mechanisms of MYMIV-resistance in *Vigna mungo* through genomic approach**; CSIR; Prof. Amita Pal (Division of Plant Biology); ₹.20,58,600; 3 years.
- Comprehensive Geo-microbiology of two high temperature hydrothermal systems of India : Paradigms of Primitive Metabolisms and biogeochemical evolution, prospects of biotechnological resource**; SERB (DST); Dr. Wriddhiman Ghosh (Microbiology); ₹.14,00,000; 3 years.

- Designs, synthesis and mechanistic insights of novel antimicrobial peptides (AMP) using high resolution NMR spectroscopy : Role of outer membrane permeability and DNA-binding**; SERB(DST); Dr. Anirban Bhunia (Biophysics); ₹.17,70,000; 3 years.
- ALICE-Operation and Utilization**; DST; Prof. Sibaji Raha (Physics); ₹.1,18,00,000; 1 year.
- Host phosphatases and kinases participating in CD40-induced anti-leishmanial vs. pro-leishmanial pathways**; DBT; Prof. Subrata Majumdar (Division of Molecular Medicine); ₹.29,80,400; 3 years.
- Setting up of a State-of-the-art 600 MHz FT-NMR with Cryoprobe facility at Bose Institute, Kolkata**; DBT; Prof. Gautam Basu (Biophysics); ₹.8,87,82,000; 18 months.
- Production and molecular characterization of somatic hybrid mushroom strains between *Agaricus bisporus* + *Pleurotus florida* and *Agaricus bisporus* + *Calocybe indica***; DAE; Prof. Samir Ranjan Sikdar (Division of Plant Biology); ₹.22,54,500; 3 years.
- Exploration of promoters of biotechnological importance from metagenomic DNA**; DAE; Dr. Tapan K. Dutta (Microbiology); ₹.18,84,000; 3 years.

- Studies on the binding mechanism of a global virulence regulator SarA of *Staphylococcus aureus***; DR; Dr. Subrata Sau (Biochemistry); ₹.18,40,300; 3 years.
- Investigating the role of ARID / HMG4 (Atlg04880) protein in transcription regulation of cold stress responsive genes**; CSIR; Dr. Shubho Chaudhuri (Division of Plant Biology); ₹.21,00,000; 3 years.
- Biophysical and Structural Aspects of Oncogenic G-Quartets bound to Drugs: Screening, High Resolution NMR and Low Resolution Spectroscopy (RGYI)**; DBT; Dr. Subhransu Chatterjee (Biophysics); ₹.30,55,000; 3 years.
- Micro-Regulatory Networks in Leukemia Stem Cells (RGYI)**; DBT; Dr. Zhumur Ghosh (Bioinformatics Centre); ₹. 27,92,400; 3 years.
- Molecular mechanisms of HSF1 mediated chromatin remodeling during transcriptional inductions of human hsp 70 by different stressors**; SERB (DST); Dr. Mahadeb Pal (Division of Molecular Medicine); ₹.44,50,000; 3 years.

- Kolkata International School cum Conference on Systems Biology (KOLSYSBIO)**; Welcome-Trust DBT India Alliance; Dr. Soumen Roy (Chemistry); ₹. 5,00,000; (December 29, 2012 to January 3, 2013).
- Targeted delivery of nanoconjugated methylglyoxal to cancer cells and understanding the bioenergetic difference between normal and malignant cells at the molecular level**; DST; Prof. Manju Ray (Biophysics); ₹.39,85,600; 3 years.
- Training of four different income generation schemes to the Scheduled Caste people and setting up individual scheme in the beneficiaries' own land for their financial upliftment**; DST; Prof. Samir Ranjan Sikdar (Division of Plant Biology); ₹.14,30,415; 1 year.
- Competitive grant for holding 3 day bilateral scientific meeting under the India-U.K. Scientific Seminars**; the Royal Society, UK, and DST; Dr. Srimonti Sarkar (Biochemistry); ₹.7,20,000.
- Characterization and design of inhibitors of *Mycobacterium tuberculosis* transcription**; DBT; Dr. Jayanta Mukhopadhyay; (Chemistry); ₹.55,73,600; 3 years.
- In vitro study of input-output robustness of MprAB signaling pathway in *Mycobacterium tuberculosis***; DBT; Dr. Suman K. Banik (Chemistry); ₹. 40,95,800; 3 years.

Editorial Board :
D. Home, G. Basu, P. Parrack, D. Basu
Assisted by : T. K. Maji
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STAFF NEWS

Appointments :

- Shri Animesh Jana** joined as Stenographer on November 06, 2012
- Shri Ratan Saha** joined as UDC on December 24, 2012
- Shri Atanu Deb** joined as UDC on December 24, 2012
- Shri Shaubhik Ghosh** joined as UDC on December 24, 2012
- Ms. Tanusri Bhattacharyya** joined as UDC on December 24, 2012
- Shri Tuhin Saha** joined as UDC on January 02, 2013
- Shri Sumanta Ghosh** joined as Jr. Overseer-cum-Caretaker on February 28, 2013
- Shri Satya Swarup Behera** joined as Office Superintendent on March 13, 2013
- Shri Nitin Sharma** joined as Office Superintendent on March 13, 2013
- Smt. Ananya Malgope** joined as Office Superintendent on March 13, 2013
- Smt. Ishani Chatterjee** joined as Curator on September 17, 2013
- Smt. Noreen Bhattacharjee** joined as Deputy Registrar on October 01, 2013

Retirements on Superannuation :

- Prof. Pratima Sinha**, Sr. Professor, on November 30, 2012
- Shri Sankarnath Sinha**, Assistant Registrar-II, on December 31, 2012
- Shri Subhash Senapati**, Helper-G, on February 28, 2013
- Shri Shashanka Sk. Bera**, Helper-G, on March 31, 2013
- Shri Ashutosh Sarkar**, Technical Officer-B, on April 30, 2013
- Dr. Romit Poddar**, Technical Officer-II, on April 30, 2013
- Shri Gobinda Das**, Technical Officer-II, on June 30, 2013
- Shri Pradip Kumar Mullick**, UDC-I, on June 30, 2013
- Shri Motilal Singh**, Helper-E, on August 31, 2013
- Prof. Indrani Bose**, Senior Professor, on August 31, 2013
- Shri Sukumar Maitra**, Assistant Registrar-I, on September 30, 2013

Resigned :

- Shri Narendra Chauhan**, Office Superintendent, on March 31, 2013
- Shri Umesh**, Controller of Accounts, on August 20, 2013

FORTHCOMING EVENTS

- Workshop on **Astroparticle Physics** (30-35 Scientists from India and abroad participating), December 16 to 18, 2013 at Darjeeling Campus. Contact person : Dr. Partha Sarathi Joarder (CAPSS) (wapp2013@mail.jcbose.ac.in).
- Winter School on **Astroparticle Physics (WAPP)** (hands-on training for M.Sc. students), December 19 to 28, 2013 at Darjeeling Campus. Contact person : Dr. Partha Sarathi Joarder (CAPSS) (wapp2013@mail.jcbose.ac.in).
- Molecular Immunology Forum 2014** will be held at Bose Institute during January 09 to 11, 2014. Convenor : Prof. Subrata Majumdar (Division of Molecular Medicine).
- An International Conference on **Matter at Extreme Condition : Then & Now** January 15 to 17, 2014 at Bose Institute, Kolkata, in collaboration with Saha Institute of Nuclear Physics, University of Calcutta & Variable Energy Cyclotron Centre. Contact person : Prof. Sanjay K. Ghosh (CAPSS) (matter.extreme@jcbose.ac.in).
- Workshop on **FAIR Physics : Compressed Baryonic Matter at FAIR**, January 20 to 24, 2014 at Bose Institute, Darjeeling Campus. Contact person : Prof. Sanjay K. Ghosh (CAPSS) (sanjay@jcbose.ac.in).

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বসু বিজ্ঞান মন্দির

BOSE INSTITUTE NEWS

বসু বিজ্ঞান মন্দির

A NEWSLETTER OF BOSE INSTITUTE

No. 40-41

May & November 2013



The 75th Acharya J. C. Bose Memorial Lecture will be delivered by Prof. Mushirul Hasan, Former Vice Chancellor, Jamia Millia Islamia, Former Director General, National Archives of India and Currently Jawaharlal Nehru Fellow on "From Prison to Power: Jawaharlal Nehru and the Making of Modern India".

DIRECTOR'S DESK

The past year at Bose Institute has been quite eventful. Together with the University of Calcutta, Bose Institute had the onerous task of organising the Centenary Session of the Indian Science Congress. With an attendance of over eighteen thousand, a major fraction of them coming at the last minute without prior intimation or pre-registration, the enormity of the organisational responsibility can be easily imagined. The entire community of Bose Institute, faculty, staff and students alike, rose to the occasion and made the event a success. Several participants observed that the special feature of the Centenary Session of the Indian Science Congress was the renewed emphasis on science.

We at Bose Institute have continued to strive for excellence, as is our creed. Our colleagues, faculty and students, have won coveted laurels; raising the bar is our motto, so that complacency does not creep in. We are making steady progress with the construction of our unified academic campus at the Salt Lake Campus. This long cherished dream will become a reality in the near future.

With best wishes to all readers of this Newsletter.

Sibaji Raha



CURRENT EVENTS

96th Foundation Day Celebrated



The 96th Foundation Day of Bose Institute was celebrated on 30th November 2012. Hon'ble Shri Gopal Krishna Gandhi, Ex-Governor of West Bengal, graced the occasion as Guest of Honour and delivered the 74th Acharya Jagadis Chandra Bose Memorial Lecture on Does India Know Itself ? The celebrations started with floral offerings and garlanding of the SAMADHI and the BUST of Acharya J.C. Bose, at all the campuses of the Institute. Dr. Asoke Desai, noted Economist and Columnist, presided over the programme. Prof. Sibaji Raha, Director, Bose Institute, delivered the Welcome Address and presented the Institute Report. Sir Nilratan Sirkar Prize 2012 was awarded to Shri Himal Kanti Ganguly, Senior Research Fellow, Department of Biophysics and Prof. B. B. Biswas Outstanding Student Award 2012 was presented to Ms. Swatilekha Ghosh, Senior Research Fellow, Division of Molecular Medicine.

Nobel laureate Dr. Venkatraman Ramakrishnan at Bose Institute



Prof. Venkatraman Ramakrishnan, who shared the 2009 Nobel Prize in Chemistry with Thomas A. Steitz and Ada E. Yonath for their work on ribosomes, visited Bose Institute on January 3, 2013. He is seen discussing with the audience after delivering a lecture on The Road to Ribosome Structure: A Personal Journey.

Annual Sports Day



The Annual Sports Day was celebrated on 18th January 2013 with the active participation of academic as well as non-academic members of Bose Institute.

National Science Day 2013 Celebrated

Bose Institute celebrated National Science Day on February 28, 2013, through various activities. The theme of the National Science Day 2013 was Genetically Modified Crops and Food Security. As part of Science Day celebrations, Prof. Swapan Kumar Datta, Deputy Director General (Crops), Indian Council of Agricultural Research, New Delhi, delivered a lecture on March 01, 2013. A large number of participants including guests, scientists, students and other professionals attended.

Laying of Foundation Stone for the Tagore Centre for Natural Sciences and Philosophy at Bose Institute

The Foundation Stone for the Tagore Centre for Natural Sciences and Philosophy (TCNSP) was laid at Bose Institute on June 19, 2013. This Centre is a collaborative effort between Bose Institute and the Centre for Natural Sciences and Philosophy, headed by Prof. Bikash Sinha. The centre is being set up to preserve and nurture the legacy of Rabindranath Tagore's universalism and passion for science. The centre would act as an interface between studies in science and philosophy," said Prof. Sinha. The Centre plans to set up four schools — for natural sciences, philosophy and science, science and culture and international collaboration.



His Excellency M. K. Narayanan, Governor of West Bengal, at the Foundation Stone laying session for TCNSP on June 19, 2013 (from left: Prof. Sibaji Raha, Director, Bose Institute, M. K. Narayanan, Governor of West Bengal, Soumitra Chatterjee, Film actor and poet, Prof. Bikash Sinha, Prof. Sushanta Dattagupta, Vice-chancellor, Visva-Bharati and Dr. T. Ramasami, Secretary, Ministry of Science and Technology, Govt. of India).

Blood Donation Camp Organized



The 5th Blood Donation Camp was organized by Bose Institute Blood Donation Committee on September 10, 2013 in the Seminar Room of Centenary Campus. The Director, Bose Institute, inaugurated the programme. Prof. Swati Gupta Bhattacharya, Chairman, CMS and Blood Donation Committee of Bose Institute, convened the whole programme. One hundred and one members from different sections of Bose Institute donated blood. Prof. Gupta Bhattacharya handed over 26 numbers of donor cards to the Thalassemia Guardians' Association.

Dipta Memorial Symposium

The 21st Dipta Memorial Symposium, on the theme Science Fiction: More Science or Mere Fiction, was organized at the main campus of the Institute on September 25, 2013 by the Dipta Memorial

Symposium Committee in association with Bose Institute Research Scholars' Forum. Prof. Sibaji Raha, Director, Bose Institute, chaired the lecture session where Dr. Anish Deb, Professor of Applied Physics of Calcutta University and Dr. Rimi B. Chatterjee, Senior Lecturer of English of Jadavpur University, both Science Fiction writers, and Mr. Judhajit Dasgupta, Associate Editor of Desh magazine, delivered lectures. The event ended with a lively Quiz Contest among undergraduate students from various colleges.

147th Birth Anniversary of Sister Nivedita Celebrated

The 147th Birth Anniversary of Sister Nivedita was celebrated on October 28, 2013, in the Lecture Hall of the Bose Institute, Main Campus, jointly by Bose Institute and Vivekananda Janmostava Samity. Mr. Dhiraj Basu, Hony. General Secretary of the Samiti, delivered the welcome address. Hon'ble Justice and ex-Governor of West Bengal, Shri Shyamal Kr. Sen, presided over the function. Prof. Sibaji Raha, Director, Bose Institute, delivered a talk on Sister Nivedita and her contributions to India. A number of distinguished guests and members of Bose Institute attended the auspicious occasion.

Indian Society of Non-linear Analysts celebrated 150th Birth Anniversary of Sir Asutosh Mookherjee

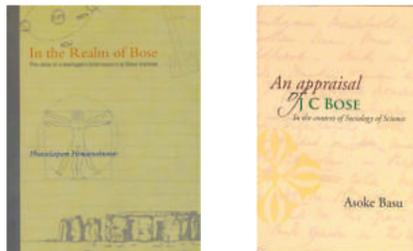
Indian Society of Non-linear Analysts (ISNA), Kolkata, organized a National Seminar on Geometry and Differential Equations with Applications (GDEA-2013) on November 15, 2013 at Bose Institute Main Campus. The seminar was dedicated to Sir Asutosh Mookherjee on the occasion of his 150th Birth Anniversary. Dr. Srikumar Banerjee was the guest-of-honour and Hon'ble Justice Chittatosh Mookherjee presented the inaugural address. The Technical Sessions were chaired by Prof. Abhijit Mookerjee and Prof. Sibaji Raha.

D. M. Bose Memorial Lecture 2013



The D. M. Bose Memorial Lecture 2013 was delivered by Dr. T. P. Singh, Distinguished Biotechnology Research Professor, Department of Biophysics, All India Institute of Medical Sciences, New Delhi, on Structural basis of the concept of protein-antibiotics as the new weapon against invading microbes on the occasion of the 129th Birthday Celebration of Prof. Debendra Mohan Bose on 26th November 2013 at the Main Campus Lecture Hall. Many distinguished scientists, students and other professionals were present. Prof. Ashoke Ranjan Thakur, former vice chancellor, WBUT, presided over the programme.

New Publications of Bose Institute



The publication division of Bose Institute recently published two new books. In the Realm of Bose: The diary of a teenager's brief sojourn at Bose Institute by Phurailatpam Hemantakumar was

published in November 2012. The book is a diary maintained by the author when he was only 14 years old and had visited Bose Institute from Manipur to attend a ten-day hands-on Science Camp. An Appraisal of J. C. Bose in the Context of Sociology of Science by Asoke Basu, Emeritus Professor, California State University, was published in May 2013. The book is a case analysis of the life and work of Sir J.C. Bose, in the context of contemporary culture and social history.

Rural Biotechnology Programme



Initiation of mulberry cutting plantation was undertaken on November 15, 2013 at Krishnadaspur village of Pathar Pratima Block of Sunderban, District:South 24-Parganas in the Sericulture Training Programme under DST SEED Project entitled "Training of four different income generation schemes to the Scheduled Caste people and setting up individual scheme in the beneficiaries own land for their financial upliftment" (Project Sanction No. SEED/SCSP/044/2011 dated 20.09.2013).



Prof. S.R. Sidkar (extreme left), Coordinator Rural Biotechnology Programme, addressing the villagers at Krishnadaspur village, Pathar Pratima Block, Sunderban, South-24 Parganas on "Present and Future of Rural Development of Sunderban held on 8th September, 2013. The other Resource persons seen on the dias are Mr. L.C. Porel, Mr. Biswarup Bhakta and Dr. Kartick Chandra Mondal.

SYMPOSIA AND CONFERENCES HELD

Prof. Joyoti Basu and Prof. Manikuntala Kundu organized the Workshop : Tuberculosis 2012: moving towards strategies for prevention and intervention, December 03-04, 2012.

Bose Institute and Saha Institute of Nuclear Physics (SINP) jointly organized the Kolkata International School cum Conference on Systems Biology (KOLSYSBIO). The School was held at Bose Institute during December 29-31, 2012 and the Conference was held at SINP during January 01-03, 2013. Dr. Soumen Roy (Bose Institute) and Dr.P.K. Mohanty (SINP) were the convenors of KOLSYSBIO.

A Seminar on Diamond Jubilee Celebration on the training of Librarianship was organized by Bose Institute Library in association with Bengal Library Association (BLA) on 20th January, 2013 at Main Campus, Bose Institute.

Workshop and Hands-on Training Programme on IEEE Xplore Digital Library: User Awareness Session was organized at Bose Institute Library, Centenary Campus, on 23rd April, 2013 for the faculty, scholars and students of Bose Institute.

Bose Institute library hosted an Internship Programme of MLIS-5 year Integrated Course of Department of Library and Information Science, University of Calcutta, for two weeks under the guidance of Dr. Arun Kumar Chakraborty.

VISITS ABROAD



The Bioinformatics Centre organized a one day symposium entitled HIGH PERFORMANCE COMPUTING: Accelerating science with Tesla GPU on July 26, 2013, coordinated by Dr. S Ghosh Dastidar. The objective of the symposium was to spread the awareness of GPU based 'accelerated' computation, which has just emerged as one of the most striking technologies capable of making a difference in the scientific achievements by rapidly increasing the computing speed. There were more than 100 participants from a wide range of fields, such as quantum chemistry, astrophysics, astrochemistry, biophysics, structural biology, bioinformatics, computational biology and computer science.



A seminar on Ethics and Values of Librarianship to celebrate Librarian's Day Programme on the Birth Anniversary of Late Prof. S.R. Ranganathan, National Professor of Library and Information Science, was organized on 11th August, 2013 by Bose Institute Library in collaboration with BLA, IASLIC, and WBPlea at Main Campus, Bose Institute. More than 650 library / information professionals (faculty/ scholars/ students/ librarians and library professionals) from all over West Bengal participated in the programme.

A 3-Day workshop on Content Management using Joomla! was organized during September 23-24, 2013 by Bose Institute Library in collaboration with IASLIC at the Centenary Campus Library.

Dr. Banabihari Giri of Central Instrument Facility, Bose Institute, organized a one day seminar on Recent advancement with microarray technology in whole genome studies on 8th October 2013.



An IFCC Workshop on "FAIR Computing: Accelerated Computing via GPU" was organized jointly by Bose Institute and Variable Energy Cyclotron (VECC) at Bose Institute, Salt Lake Campus (CAPSS), from 11th to 15th November, 2013. The Workshop was conducted by Prof. Sanjay K. Ghosh of Bose Institute and Mr. Vikas Singhal of VECC. Thirty registered participants from different parts of India attended. They undertook both Theory and Hands-on Sessions on all Parallel Computing Paradigms on CPU and GPU. The performances of the participants were excellent.

Prof. P. Chakrabarti (Biochemistry) attended (i) the seminar on "Successful Indo-French S & T Cooperation: CEFIPRA", Paris, May 17th 2013; (ii) TWAS 24th General Meeting, Buenos Aires, Argentina, October 01-04, 2013.

Dr. Srimonti Sarkar (Biochemistry) visited USA during 12-20 July, 2012 to deliver an oral presentation at the 86th Annual Meeting of the American Society of Parasitology, Richmond, VA, USA and an invited seminar at the Dept. of Molecular Genetics, Ohio State University, Columbus, OH, USA.

Dr. S. Ghosh Dastidar (Bioinformatics Centre) gave a talk in the conference "Computer Aided Drug Design" held at UiTM, Kuala Lumpur and gave another talk in Chulalongkorn University, Bangkok, during December 03-07, 2012.

Prof. Joyoti Basu (Chemistry) (i) presented a paper in the Keystone symposium "The Innate Immune Response in the Pathogenesis of Infectious Diseases" held in Ouro Preto, Brazil, from May 10 to 15, 2013; (ii) delivered a lecture in the symposium, "Systems Biology of Infection" organized by ETH Zurich from June 23 to 27, 2013 in Ascona, Switzerland.

Prof. Manikuntala Kundu (Chemistry) presented a paper in the Gordon Research Conference on Tuberculosis Drug Development held in Lucca, Italy from July 21-27, 2013.

Priyanka Halder, Research Fellow (Chemistry) presented a paper in the Keystone Symposium "TUBERCULOSIS: UNDERSTANDING THE ENEMY" held in Whistler, Canada from March 13 to 18, 2013.

Dr. Banabihari Giri (Central Instrument Facility) visited USA on August-September to set up a joint collaboration with scientists at Wake Forest University, North Carolina.

Prof. Parimal C. Sen (Division of Molecular Medicine) delivered invited talks in two International Conferences, MolMed - 2013 and BIT's 11th Annual Congress of International Drug Discovery & Technology, Therapy and Expo at Haikou, China during November 13-17, 2013.

Dr. Anup Kumar Misra (Division of Molecular Medicine) visited Åbo Academy University, Finland during August 01-October 31, 2013 under an exchange program of DBT, India and Academy of Finland.

Dr. Kuladip Jana (Division of Molecular Medicine) delivered an invited lecture at the Fifth International Symposium on Nonsurgical Contraceptive Methods for Pet Population Control in Portland, Oregon, U.S.A., during 20-24, 2013 and received Young Scientist Award.

Prof. A. N. Lahiri Majumder (Division of Plant Biology) delivered an invited talk in the "Abiotic Stress" session of the 7th International Rice Genetics meeting organized by the International Rice Research Institute (IRRI) at Manila, Philippines, held during November 05-07, 2013.

Dr. Sonali Sengupta, Staff Scientist (Division of Plant Biology) delivered a talk in the "RNA Biology minisymposium" in the Annual Meeting of the American Society for Plant Biology at Providence, Rhode Island, during July 20-24, 2013 and was awarded the ASPB Travel Grant Award.

Himadri Shekhar Chakrabarty, RA; Kavita Ghosal, SRF; Bodhisattwa Saha, SRF; and Gaurab Sircar, SRF (Division of Plant Biology) working under Prof. Swati Gupta Bhattacharya, visited Milan, Italy, for a poster presentation at the World Allergy and Asthma Congress held during June 22-26, 2013, on a EAACI-WAO travel grant award.

Gaurab Sircar, SRF (Division of Plant Biology) working under Prof. Swati Gupta Bhattacharya visited Berlin, Germany for an oral presentation at the Skin Allergy Meeting 2012, held from 29th November to 1st December 2012 on a SAM-EAACI travel grant award.

