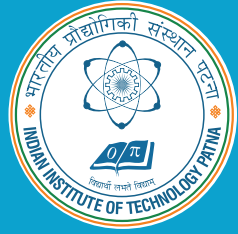


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NEWSLETTER FROM IIT PATNA *Impulse*



From The Director's Desk

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Dear Friends,



I feel privileged again to welcome you to a new year, i. e. 2014 – a year full of possibilities and promises which I have been sharing with my students and faculty members since I joined IIT Patna as Director. I feel elated to say that with the type of progress which IIT Patna has made in the limited time and space, even from its transit campus will really provide all of us with joy and satisfaction.

IIT Patna is carving its own niche day by day; thanks to our brilliant students, qualified faculty and well-trained staff members. We have achieved many milestones and have emerged as a force to reckon with. Teaching, research innovation and well-being of society – our motto is being realized all around. Our faculty members contribute to academia by attending and presenting papers in reputed conferences, publishing quality papers in journals and also reaching society at large by writing books and organizing workshops and seminars that benefit all knowledge seekers. Our faculty strength is increasing day by day. Three new departments (Department of Civil and Environmental Engineering, Department of Chemical and Biochemical Engineering and Department of Materials Science and Engineering) have come up last year. New programmes and courses at M. Tech level have also been introduced. A course entitled Technical Communication has been made compulsory both for M. Tech and Ph. D students. This would surely help them realize the importance of required skills at workplace. We have created three centers of excellence – Centre of Excellence in Energy and Environment, Centre of Excellence in Advance System Engineering and Centre of Excellence in Strategic Materials. Also, an Innovation Centre has been developed to help students realize their future dreams.

Eighty nine students got B. Tech. Degree and three students received Ph. D degree last year in the august presence of Honourable President of India Shri Pranab Mukherjee. Our Faculty members and students are bringing laurels like every year. In the sponsored research activities, we have moved significantly. A sophisticated instrumental facility has been established for strengthening research. Collaboration with foreign Universities continues unabated.

We hope to move to our new campus at Bihta this year. New places or destinations, of course, may have some lapses but an optimistic mind always looks at the brighter side. Bihta Campus of IIT Patna, with its ample space and serene surrounding, I hope, will fulfil everyone's expectations. It will have adequate facilities not only for teaching and research but also for entertainment and well-being of everyone. Who is not attracted to the open air and tranquil moments of Nature – always at its leisure to enrich mankind? The initial days may be full of challenges, yet I feel that our collective and corporate responsibility will help us find out suitable remedies. History is the witness that men have moved even mountains. So, why to worry and invite unnecessary troubles when we have with us competent manpower, forward looking researchers having innovative ideas and knowledge crazy students? Human life is full of ups and downs, winter and summers. It is actually the various colours of Nature that enrich our dreams. Let's all remember what the famous romantic poet, P. B. Shelley said, "If Winter comes, can Spring be far behind?" Let's welcome this new Spring.

Anil K. Bhowmick



Editorial

The editorial collective of Impulse greets all its readers a prosperous new year 2014, full of opportunities and challenges.

IMPULSE 2014, Vol. VI, No. 1 is in your hands. As every semester closes and new semester sets in, Impulse - the biannual Newsletter of IIT Patna provides us with a chance of estimating our achievements. Every achievement big or small adds to an institution's strength and reputation. IIT Patna, since its beginning in 2008 has spread its wings manifold – right from its progress in construction work at Bihta to its faculty strength, research facilities, creditable project works and research publications in reputed journals. It was a glorious moment for IIT Patna to celebrate its second convocation on 26th October 2013, amid the presence of luminaries like Shri Pranab Mukherjee, the Hon'ble President of India, Dr. D. Y. Patil, the Hon'ble Governor of Bihar, Shri Nitish Kumar, the Hon'ble Chief Minister of Bihar, and Padma Bhusan Shri Ajai Chowdhry, Chairman, Board of Governors, IIT Patna. Such milestones in our journey will add a fillip and empower all students, faculty and staff to contribute their mite in making IIT Patna a world-class institution.

Dr. Binod Mishra | Dr. Priyanka Tripathi | School of Humanities and Social Sciences

BoGs of IIT Patna



Mr. Ajai Chowdhry
Chairman



Prof. Anil K. Bhowmick
Director



Prof. Amitabha Ghosh
Former Director, IIT
Kharagpur



**Prof. Sriman Kumar
Bhattacharya**
Director, CBRI Roorkee



Prof. Ajay Chakrabarty
Former Vice-Chancellor,
BIT Mesra



Dr. T. Mukherjee
Ex-Deputy M D, Tata Steel,
Jamshedpur



Prof. M. B. Sharan
Senior Professor of
Psychology, HSS, IIT
Patna



Prof. Swapan Majumdar
CEE, IIT Patna



Mr. Subhash Pandey
Registrar, IIT Patna

New Appointments



Dr. Sujoy Kumar Samanta
PhD, IIT Madras, Assistant Professor,
Department of Chemical and Biochemical
Engineering



Dr. Debashis Chakraborty
PhD, University of Gottingen, Associate
Professor, Department of Chemistry



Raghavan Kollengode Easwaran
PhD, University of Paris, Assistant
Professor, Department of Physics

New Appointments



Dr. Amit Kumar
PhD, IIT Kanpur,
Assistant Professor,
Department of Chemistry



Dr. Jayanta Kumar Pal
PhD, University of Michigan,
Assistant Professor,
Department of Mathematics



Dr. Venkata Ramanaiah Dantham
PhD, IIT Madras,
Assistant Professor,
Department of Physics



Dr. Sumana Roychowdhury
PhD, University of Akron,
Assistant Professor,
Department of Chemistry

Convocation 2013

Convocation or Dikshaant Samaroh marks the culmination of an academic program. The Second Convocation was a historic moment in the journey of IIT Patna. Honourable President, Shri Pranab Mukherjee was the chief guest in the second convocation. The Hon'ble Governor of Bihar, Dr. D. Y. Patil and the Hon'ble Chief Minister of Bihar, Shri Nitish Kumar also graced the occasion. The second batch of B.Tech students received their degrees in the convocation. A total number of 92 students (89 B.Tech and 3 PhD) received their degrees in this convocation. Three Ph. D students of IIT Patna were also awarded their degrees. Three distinguished academicians, namely Prof. C. N. R. Rao, Dr. Kasturirangan, and Dr. Ratan K.Sinha were also awarded on this occasion. Three students were awarded medals too.



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1. Convocation team on the dais
2. Hon'ble President addressing the gathering
3. Dr. Kasturirangan receiving Distinguished Academician Award
4. Dr. R. K. Sinha receiving Distinguished Academician Award
5. Students receiving Institute Medal
6. Audience members during the Convocation
7. Hon'ble Governor Dr. D. Y. Patil addressing the gathering
8. Chairman, BoG Shri Ajai Chowdhry addressing the gathering

Award Winners



Padma Vibhushan Prof. C. N. R. Rao
Chairman, Scientific Advisory Council



Padma Vibhushan Dr. K. Kasturirangan
Member, TWAS



Dr. Ratan K. Sinha
Secretary, Dept. of Atomic Energy &
Commission

Medals and Prizes



President of India Gold Medal
Abhinav
Department of Computer Science and
Engineering



Director's Gold Medal
Kshitij
Department of
Electrical Engineering



Institute Silver Medal
Abhinav
Department of
Computer Science and
Engineering



Institute Silver Medal
Kshitij
Department of
Electrical Engineering



Institute Silver
Medal
Ashutosh Kumar
Department of
Mechanical
Engineering

Visits Abroad

- Dr. S. Saha visited University of Caen, Basse-Normandie, France as a visiting faculty during October 9-21, 2013. She also visited University of Trento, Italy as a visiting researcher during December 2-7, 2013. Dr. Saha S. visited University of Caen, Basse-Normandie, France as a visiting researcher during December 8-23, 2013.
- Dr. Asif Ekbal visited University of Trento and FBK, Italy as a visiting researcher during December 2-7, 2013. He also visited University of Caen, Basse-Normandie, France as a visiting faculty during December 08-21, 2013.
- Dr. Rajib Kumar Jha visited Kuching Sarawak, Malaysia, to present paper entitled, "Novel Approach for Combined Rotational and Translational Motion Estimation Using Frame Projection Warping" in IEEE VCIP conference from November 17-21 2013.
- Dr. K. Patra visited Jeju Island, South Korea for presenting papers and chairing session on "Dielectric Elastomer Actuator" in BAMN 2013 Conference from August 26-30, 2013.
- Dr. A. Thakur attended ASME 2013 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE) held in Portland, Oregon during August 4-7, 2013. He also represented IIT Patna at PAN IIT 2013 conference held in Houston, Texas during December 6-8, 2013.
- Dr. Neeladri Das participated in the 15th Asian Chemical Congress, held in Singapore from August 19-23, 2013.

Visitors to IIT Patna

Sr. No.	NAME OF THE SPEAKER AND AFFILIATION	TITLE OF TALK	DATE
1	Prof. Amitabh Narain Michigan Technological University, Houghton, MI, USA	Innovative Realizations of High Heat-Flux Condensing and Boiling Flows for Milli-meter and Micro-meter Scale Applications	Dec. 16, 2013
2	Dr. Jaivardhan Sinha National Institute for Materials Science, Tsukuba Japan (NIMS)	Perpendicular Magnetic Anisotropy and Current Induced Effective Field in Ta(N) CoFeB MgO	Dec. 12, 2013
3	Dr. Rajesh Kumar Johann Radon Institute for Computational and Applied Mathematics (RICAM), Austrian Academy of Sciences, Linz, Austria	Numerical Analysis of Finite Volume Schemes for Population Balance Equations	Dec. 11, 2013
4	Dr. Shashi B. Kumar PhD, (DNV GL Singapore)	Application of Fracture Mechanics Principles in Design and Construction of Offshore and Marine Structures	Dec. 09, 2013
5	Prof. Rajkumar S. Pant Professor, Department of Aerospace Engineering, IIT Bombay	Design and Development of Light-than-air Systems	Dec. 09, 2013
6	Dr. Udaya Parampalli Senior Lecturer of University of Melbourne, Australia	On Aperiodic Correlation bounds and Generalized Golay Complementary Pairs	Dec. 09, 2013
7	Dr. Udaya Parampalli Senior Lecturer of University of Melbourne, Australia	Low Correlation Sequences for Information Hiding	Dec. 09, 2013
8	Prof. N. S. Vyas IIT Kanpur	India Railway Technology Mission	Nov. 26, 2013
9	Dr. Dhananjay Kumar Geophysicist, Chevron, Houston (USA)	Geophysical Modelling & Inversion	Nov. 14, 2013
10	Dr. Prashant Jha Fellow, Stanford India BioDesign; Fellow, Intensive Care Medicine; Fellow, Clinical Research; MS (IIT Kanpur); MBBS P.G. in Family Medicine (RCGP, UK)	Medical Technology Innovation Project	Nov. 01, 2013
11	Prof. Swati Neogi Department of Chemical Engineering, IIT Kharagpur	Composite Applications Laboratory: Facilities and Research Activities	Oct. 31, 2013
12	Prof. Dharendra Bahadur Department of Metallurgical Engg. and Materials Science, IIT Bombay	Magnetic Behaviour of Graphene and Tin Oxide Quantum dot	Sep. 27, 2013
13	Dr. Saikat Guha Senior Scientist, Quantum Information Processing (QIP) group Raytheon BBN Technologies, Cambridge, MA	Reading Boundless Error free bits Using a Single Photon	Sep. 13, 2013
14	Prof. Kalyan Bidhan Sinha (Ex-Director ISI Kolkata), Honorary Professor JNCSAR, Bangalore	The Fundamental Theorem of Integral Calculus - Mathematics and Physics in it	Sep. 09, 2013
15	Prof. Sreebrata Goswami FASc, FNA (Dean Academic, IACS Kolkata)	Redox Non-innocence of Coordinated Ligands: Case Studies Using Azoaromatic Ligands	Aug. 24, 2013
16	Mr. Neeraj Kumar Singh St. D - DO BMF, Finance Ministry	The Concept of Investment Banking Functions and its Automation	July 27, 2013
17	Dr. Ganesh Balasubramanian Assistant Professor at the Mechanical Engineering Department, Iowa State University	Nanoscale Thermal Transport in Hard and Soft Materials for Energy Applications	July 18, 2013
18	Prof. Krishna Dev Kumar Professor & Canada Research Chair in Space Systems at the Department of Aerospace Engineering, Ryerson University	Spacecraft Dynamics and Control: Ongoing Research and Current Challenges	July 10, 2013

Invited Talks

- **Kar Manoranjan**, “Coexistence of Multiple Crystal Symmetries in Doped Bismuth Ferrite”, SSPS-2013 ISM Dhanbad, Nov. 18-20, 2013
- **Kar Manoranjan**, “Effect of Multiple Crystal Symmetries on the Electrical Properties of Substituted Bismuth Ferrite”, CM-DAYS-2013, NIT Rourkela, Aug. 29-31, 2013
- **Kar Manoranjan**, “Non-Linear Behaviour of Coercivity to the Maximum Applied Magnetic Field in La³⁺ substituted Nanocrystalline”, Cobalt Ferrite, MAGMA-2013, IIT Guwahati, Dec. 05-07, 2013
- **Kar Manoranjan**, “Atomic Force Microscopy for Materials Characterization”, M3PAC-2013, NIT Durgapur, Sep. 17-21, 2013
- **Kar Manoranjan**, “Heat and Thermodynamics”, Inservice Course of PGT (Physics) Kendriya Vidyalaya Sangathan, Kendriya Vidyalaya, Bailey Road, Patna, Dec. 25, 2013
- **Suman Sawan**, “Turbulence Modelling” in HCET, Aligarh Muslim University, Sep. 01, 2013
- **Suman Sawan**, “Modeling Compressibility Effects on High Speed Turbulence”, in Birla Institute of Technology, Patna Campus, Oct. 03, 2013
- **Suman Sawan**, “Scientific Document Preparation using Latex”, NIT, Patna, Dec. 22, 2013
- **Thakur A**, “Robotics Based Indirect Optical Manipulation of Biological Cells for Studying Collective Migration”, at Mahavir Cancer Sansthan Patna, India, Sep. 06, 2013
- **Mishra Binod**, “Enhancing Teaching Effectiveness for Student Development”, Faculty Development Programme on Communication Skills for Change Management in Classrooms, organized by Department of Humanities, MJP Rohilkhand University, Bareilly, Dec. 14, 2013
- **Raj Rishi**, “Role of Wettability on Micro and Nano-structured Surfaces for Enhanced Phase Change Heat Transfer”, International Workshop on Thermal Design and Management in Electronics, Bangalore, Dec. 18-19, 2013
- **Raj Rishi**, “Microheater Array Boiling Experiment (MABE) on the International Space Station”, ISRO Satellite Centre, Bangalore, Dec. 20, 2013
- **Raj Rishi**, “Thermo-Fluidic Transport Processes Near the Three-Phase Contact Line”, Recent Advances in Micro/Nanoscale Heat Transfer and Applications in Clean Energy Technologies, IIT Ropar, Dec. 21-22, 2013
- **Raj Rishi**, “Thermo-Fluidic Transport Processes near the Microscopic Contact Line”, International Symposium on Micro/Nanoscale Heat Transfer & its Applications, PESIT, Bangalore, Dec. 26-27, 2013
- **Jha Rajib Kumar**, “Advance Image Processing & Progress in Image Enhancement applications”, in Image Processing and Soft Computing workshop, IIT Roorkee, Roorkee, Nov. 27-29, 2013
- **Chandra Joydeep**, “Social Media Analysis and Data Mining”, Bengal Engineering and Science University, Shibpur, West Bengal, June 13, 2013
- **Sharan M B**, “The Psychology of Super-Conscious Mind” at 23rd Annual Conference of the National Academy of Psychology (NAOP) held at NIT, Rourkela, Dec. 13 - 15, 2013
- **Prakash Om**, “Introduction to Cryptography” in INSPIRE Science Camp at KVK, Banasthali University, Banasthali, Rajasthan on Nov. 17, 2013
- **Parida S. K.**, “A Novel Hybrid Approach for Combined Allocation of Renewable Energy Sources in Distribution System”, in a Workshop on Hybrid Power Generation Systems at Central Power Research Institute, Bangalore, Oct. 11 - 12, 2013
- **Bharti Nalin**, “Special Task Force on Women in the Informal Economy of Bihar”, Bihar Industries Association, Patna, Sep. 30, 2013
- **Ekbal Asif**, “Named Entity Recognition and Introduction to Biotextmining”, in Machine Learning and Text Analytics winter school, South Asian University, Delhi, Dec. 23, 2013
- **Kolekar Mahesh**, “Image Processing Techniques on Cardiovascular Disease Diagnosis and 3D Modeling of Aorta”, in 1st Cardiovascular Bioengineering Symposium at IIT Delhi, Dec. 12, 2013
- **Raj Aditya & Raj Papia**, “Public Health Data in India: Deficiencies & Remedies”, SCADA Convention Centre, Peerchand Patel Marg, Patna, Dec. 19, 2013

Sponsored Projects

NAME OF PI	DEPARTMENT	TITLE	SPONSOR
Dr. Anup Kumar Keshri	MSE	Fabrication of Robust Plasma Sprayed Rare-earth Oxide Hydrophobic Coating for the High Temperature and Wear Resistance Applications	Recommended for the financial support by DST Fast Track
Dr. S. Mondal	CSE	Development of an Efficient Authentication Scheme to be used in public domain	Science and Engineering Research Board(SERB)
Dr. Atul Thakur	ME	Robust Motion Planning for Amphibious Bio-inspired Robots	DST, INDIA
Dr. P. Saha	ME	Development of a Real Time Tool Wear Monitoring and Compensation Method for Reverse Micro-EDM and Micro-EDM Drilling Process	DST, India
Dr. S. S. Panda	ME	Monitoring of Heat flow Phenomenon of a Low Freezing Material during Continuous Casting	BRNS, DAE
Dr. Ranjan Kumar Behera	EE	Integrated Automatic Voltage Control of a High-efficient Solar Photovoltaic System	SERB (DST)
Dr. Neeladri Das	Chemistry	Design and Synthesis of Triptycene Based Microporus Polymers	CSIR
Prof. Anil K. Bhowmick	Chemistry	Sophisticated Analytical Instrument Facility (SAIF)	DST

Workshop and Short Term Courses

Department of Physics organized an “Orientation Course for Physics Teachers” from July 1–7, 2013. The course was aimed at concentrating towards methodology of teaching Physics at the graduate and Post Graduate levels. Renowned physics teacher of India, Prof. H. C. Verma of IIT Kanpur gave a talk in the valedictory meeting.



Participants of Workshop on “Mathematical Epidemiology & Differential Equations” from 8-13 July, 2013

Department of Mathematics organized an Advanced Workshop on “Mathematical Epidemiology & Differential Equations” from July, 8-13, 2013 under the NPDE-TCA programme of DST, Govt. of India. During this week-long programme, experts from reputed institutes of India and abroad were invited to deliver lectures on topics related to Mathematical Epidemiology. Dr. P.K. Srivastava of IIT Patna and Prof. Peeyush Chandra of IIT Kanpur were the Coordinators of the workshop. The resource persons included Prof. M. Banerjee (IITK), Prof. P. Chandra (IITK), Prof. B. Dubey (BITS, Pilani), Prof. A. Mubayi (NEIU, USA), Prof. A. K. Misra (B.H.U), Prof. V. Raghavendra (IIT Mumbai), Prof. A. S. Rao (GRU, USA), and Dr. P. K. Srivastava (IITP).

Department of Physics organized a workshop on “Concepts of Physics through Experiments” from December 13 – 14, 2013. It was aimed at creating awareness among the students of 11th and 12th grade to take up physics as their career in future.

Publications

Department of Computer Science & Engineering

Ekbal Asif and **Saha Sriparna**, Stacked Ensemble Coupled with Feature Selection for Biomedical entity Extraction, Knowledge Based Systems, Elsevier, 46, 22–32, 2013

Ekbal A., Saha S. and **Sikdar U. K.**, Biomedical Named Entity Extraction: Some Issues of Corpus Compatibilities, Springer Plus Journal

Sikdar U., Ekbal A., Saha S., Uryupina O. and **Poeiso Massimo**, Coreference Resolution System for Bengali: An Experiment with Domain Adaptation. In Computing and Systems, 17(2), 2013

Saha S., Ekbal Asif, Gupta K. and **Bandyopadhyay S.**, Gene Expression Data Clustering Using A Multiobjective Symmetry Based Clustering Technique, Computers in Biology and Medicine, 43(11): 1965-1977, 2013

Peri Sathya and **Vidyasankar K.**, Correctness of Concurrent Executions of Closed Nested Transactions in Transactional Memory Systems, Theoretical Computer Science, 496: 125-153, 2013

Halder Raju and **Cortesi Agostino**, Abstract Program Slicing on Dependence Condition Graph. Science of Computer Programming, Elsevier, 78(9):1240-1263, 2013

Department of Electrical Engineering

Jha Rajib Kumar., Chouhan Rajlaxmi, Aizawa Kiyoharu and **Biswas P. K.**, Dark and Low Contrast Image Enhancement Using Dynamic Stochastic Resonance in DCT Domain, APSIPA Transactions on Signal and Information Processing, DOI: <http://dx.doi.org/10.1017/ATSIP.2013.7> (2), 2013

Shukla Deepika and **Jha Rajib Kumar**, An Efficient DTW Based Approach for Translational Jitter Stabilization In Hand-Recorded Videos, Journal of Signal, Image & Video processing, DOI 10.1007/s11760-013-0584-5, 2013

Department of Mechanical Engineering

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Patra K., Pal S. K. and **Bhattacharyya K.**, Strategies for Intelligent Drill Wear Prediction Using Multiple Sensor signals, International Journal

of Mechatronics and Manufacturing Systems, 493 –512 (5-6) 2013

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Srivastava, Pal S., Saha P. and **Das K.**, Experimental Investigation of the Effect of Working Parameters on Wire Offset in Wire Electrical Discharge Machining of Hadfield Manganese Steel, Journal of Surface Engineered Materials and Advanced Technology, 295-302(3), DOI: 10.4236/jsemat., 34040, 2013

Department of Civil and Environmental Engineering

Indraratna B., Hussaini Syed K. K., and **Vinod J. S.**, The Lateral is Placement Response of Geogrid-reinforced Ballast under Cyclic Loading, Geotextiles and Geomembranes, 39, 20-29, 2013

Department of Material Science & Engineering

Banerjee Shib Shankar and **Bhowmick Anil K.**, Novel Nanostructured Polyamide 6/Fluoroelastomer Thermoplastic Elastomeric Blends: Influence of Interaction and Morphology on Physical Properties, Polymer, 54(24), 6561-6571., 2013

Department of Chemistry

Roy Nabarun and **Bhowmick Anil K.**, Synthesis and Characterization of Fibrous Nanosilica/Polydimethylsiloxane Composites, Journal of Applied Polymer Science, 130(2), 1005, 2013

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Anandhan S. and **Bhowmick Anil K.**, Thermoplastic Vulcanizates from Post Consumer Computer Plastics/Nitrile Rubber Blends by Dynamic Vulcanization, Journal of Material Cycles and Waste Management, 15(3), 300-309, 2013

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Department of Mathematics

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Department of Physics

Kumar Lawrence, Kumar Pawan and Kar Manoranjan, Cation Distribution by Rietveld Technique and Magnetocrystalline Anisotropy of Zn Substituted Nanocrystalline Cobalt Ferrite., J. Alloys. Compd. 551, 72, 2013

Mohanty Sunita, Kar Manoranjan and S. Ravi Ferromagnetism in Mechanically Milled pure SnO_2 , International Journal of Modern Physics B, 27, 1350025, 2013

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Department of Humanities & Social Sciences

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Mishra Binod, Love as Leitmotif in the Poetry of Pashupati Jha, *Polyphony*, 2, 24-37, 2013

Bharti Nalin, Privatization and Labour in South Asia: Some Issues in Fiscal Sociology, *New Essays on Fiscal Sociology-Considerations of an Encyclopedia on Fiscal Sociology*, Ed. Prof. Jürgen G. Backhaus, Peter Lang Verlag, Frankfurt am Main, 165-200, 2013

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Conference Presentations

Department of Computer Science and Engineering

Mishra R., Mondal Samrat and Saha Sriparna, Entity Matching Technique for Bibliographic Database, 24th International Conference on Database and Expert Systems Applications (Dexa), Prague, Czech Republic, pp. 34-41, Aug 2013

Sairam Ashok Singh, Saha Sriparna, Ekbal Asif and Reddy Gurramapati Ravi Teja, Improved Multiojective Algorithm for Dynamic Load Balancing of Network Traffic, *IEEE INDICON 2013*, Dec. 13-15, 2013

Waghmare Anandghan, Majumdar Arka Prokash and Sairam Ashok Singh, Time Synchronization Protocol for 6LoWPAN, 2nd International Conference on Advances in Computing, Communication and Informatics (ICACCI 2013), Mysore, India, Aug. 22-25, 2013

Saha S., Ekbal A., Gupta K. and Bandyopadhyay S., Gene Expression Data Clustering Using A Multiobjective Symmetry Based Clustering Technique, *Computers in Biology and Medicine*, Elsevier, 43(11): 1965-1977

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Raj S., Jain A. and Misra Rajib, Smartphone sensing for large data set collection of potholes, *ACM MobiSys, Taipei, Taiwan*, June 25- 28, 2013

Mazumdar Arka Prokash, Surange Adhar and Sairam Ashok Singh, Providing Stable Routes in Mobile Ad hoc Networks, Ninth International Conference on Wireless Communication and Sensor Networks, WCSN-2013, Springer, Dec. 16-19, 2013

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Das Debasis and Misra Rajiv, Improvised k-hop Neighbourhood Knowledge Based Routing, presented at *ADCONS 2013, NIT Surathkal, Karnataka India (IEEE)*, 15-17 December 2013

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Department of Electrical Engineering

Nayak P.B., Endluri R., Verma S., and Kumar P., Compact Dual-band Antenna for WLAN Applications, 24th IEEE International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC), London, UK, Sept. 8-11, 2013

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Shukla Deepika and Jha Rajib Kumar, A Robust On-Road Moving Platform Image Stabilization Using Derivative Curve Warping, *PReMI, LNCS 8251, ISI Kolkata, India*, 2013

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Shukla Deepika and Jha Rajib Kumar, An Optimized Derivative

Conference Presentations

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Jha Rajib Kumar, Maitre Anand and Mohanty Sravan, Entropy-Based Rain Detection and Removal, in proceedings of IEEE CARE, Jabalpur, India, Dec.16-18, 2013

Department of Mechanical Engineering

Chowdhury S., Thakur A., Svec P., Wang C., Losert W. and Gupta S. K., Enhancing Range of Transport in Optical Tweezers Assisted Micro Fluidic Chambers using Automated Stage Motion, ASME International Conference on Micro and Nanosystems, Portland, Oregon, Aug. 4 - 7, 2013

Mandal Soumen and Kumar Subrata, Numerical Analysis of Material Deposition by PTAW for Repair of Metallic Components, 22nd National and 11th ISHMT-ASME Heat and Mass Transfer Conference, IIT-KGP, Dec. 28-31, 2013

Mandal Soumen and Kumar Subrata, Application of Plasma Deposition in 3d Manufacturing, 2nd PSSI plasma scholars' Colloquium and National Workshop on Plasma Device Technology, CSIR-Central Electronics Engineering and Research Institute (CEERI), Pilani, July 22-24, 2013

Nirala C.K. and Saha P., Towards the Development of a New Online Tool Wear Compensation Strategy in μ EDM-Drilling, pp.188-193, International Conference on Precision, meso, micro and nano engineering (COPEN-8: 2013) NIT Calicut, Kerala, India, Dec.13-15, 2013

Kumar Manish and Roy Somnath, Modeling Complex Thermal Boundaries Using Immersed Boundary Method, 22nd National and 11th ISHMT Heat and Mass Transfer Conference, IIT Kharagpur, Dec. 2013

Roy Somnath., Sarangi Somnath and Kumar Manish, Immersed Boundary Simulation of Flow Past Low Reynolds Number Elastic Airfoil, 12th United States Congress in Computational Mechanics, Raleigh, July 2013

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Sahu R. K., Pramanik B., Patra K., Bhaumik S., Pandey A. K. and Setua D. K., Dissipation Factor of Acrylic Dielectric Elastomer – An Experimental Study, The 7th World Congress on Biomimetics, Artificial Muscles and Nano-Bio(BAMN2013), Jeju Island, South Korea, 26-30 Aug. 2013

Sahu R. K., Sudarshan K., Patra K., and Bhaumik S., Evaluation of Area Strain Response of Dielectric Elastomer Actuator Using Image Processing Technique, The 7th World Congress on Biomimetics, Artificial Muscles and Nano-Bio(BAMN2013), Jeju Island, South Korea, Aug. 26-30, 2013

Tauheed F. and Sarangi S., Invariant Based Damage Model for Hyperelastic Materials; In World Congress on Frontiers of Mechanical Aeronautical and Automobile Engineering WCFMAAE, IIT Delhi; pp 452-456, 2013

Pathak H., Singh A. and Singh I. V., Fracture Analysis of 3D Orthotropic Cracked Domain by Extended Finite Element Method (XFEM), Fourth International Conference on Recent Advances in Composite Materials (ICRACM), IIT BHU, India, Feb. 18 – 21 2013

Liang Q., Raj R., Adera S., Somasundaram S., Tan C. S. and Wang E. N., Experiment and Modeling of Microstructured Capillary Wicks for Thermal Management of Electronics, 15th Electronic Packaging Technology Conference, Singapore, Dec. 11-13, 2013

Adera S., Raj R., and Wang E. N., Capillary Limited Thin-Film Evaporation on Microstructured Surfaces, ASME, 4th Micro/Nanoscale Heat and Mass Transfer International Conference, Hong Kong, China, Dec. 11-14, 2013

Raj R., Enright R., Zhu Y., Adera S. and Wang E. N., Thermodynamic Model for Contact Angle Hysteresis on Heterogeneous and Superhydrophobic Surfaces, ASME Summer Heat Transfer Conference, Minneapolis, MN, July 14-19, 2013

Raj R., Adera S., Liang Q., Xiao R., Tan C.S. and Wang E.N., Experiments, Modeling and Optimization of Thin Film Evaporation in Microstructured Capillary Wicks, ASME 2013 Summer Heat Transfer Conference, Minneapolis, MN, July 14-19, 2013

Department of Material Science and Engineering

Bhowmick Anil K. (Plenary Speaker), Modification of Polymer, Polymer blends and Composites in Polymer Processing equipment, Polymer Processing Society Asia/Australia Conference (PPS-2013, December 4-7).

Bhowmick Anil K. (Keynote Speaker), Studies on Modified Nanomaterials and their Applications, RAPT 2014, (An International Conference and Expo) Kolkata, Jan. 22-24, 2014.

Chowdhury Anirban, Bijalwan Pavan Kumar and Sahu Ranjan Kumar, The Role of Alkali to Obtain Modulated Defect Concentrations for Cu_2O Thin Films on Steel, IUMRS-ICA 2013, Bangalore, Dec. 15 - 20, 2013

Department of Mathematics

Suthar Sheela and Prakash Om, Covering of Line Graph of Zero Divisor Graph over Commutative Ring \diamond^n , in the International Conference on Special Functions & Their Applications' (ICSFA) and Symposium on Applications in Diverse Fields of Engineering and Technology, held at Malviya National Institute of Technology, Jaipur, Rajasthan, Dec. 13-15, 2013

Srivastava Prashant K., Modeling Multiple HIV attacks on T Cells in presence of drugs, International Conference on Mathematical Modeling and Computer Simulation with Application, IIT Kanpur, Dec. 31, 2013

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Conference Presentations

Department of Physics

Rajput S. K. and Nishchal N. K., Double Image Encryption Scheme Based on Known-Plaintext Attack in Fractional Fourier Transform Domain, Workshop on Recent Advances in Photonics, IIT Delhi, New Delhi Dec. 17-18, 2013

Mehra I. and Nishchal N. K., Vulnerability of Asymmetric Cryptosystem based on Spherical Wave Illumination, Workshop on Recent Advances in Photonics, IIT Delhi, New Delhi, Dec. 17-18, 2013

Nishchal N. K., Digital Holographic Microscopy, Int'l. Confer. on Role of Science and Technology in Progress of World, DESIDOC, DRDO, Delhi, Dec. 05-07, 2013

Rajput S. K. and Nishchal N. K., Optical Asymmetric Cryptosystem using Polarized Light, Proc. SPIE 8855, 885503, Aug. 25 – 29, 2013

Rajput S. K. and Nishchal N. K., Known-plaintext Attack on Asymmetric Cryptosystem, Proc. SPIE 8855, 88550U, Aug. 25 - 29, 2013

Kour Paramjit, Kumar Pawan, Sinha S. K. and Kar Manoranjan, Effect of Neodymium Doping on the Dielectric and Impedance of PZT Nanoceramics, IUMRS-ICA, IISc Bangalore, 2013

Kumar Pawan, Kumar Rajnish and Kar Manoranjan, Enhanced Magnetic and Dielectric Properties of Ca^{2+} and Ti^{4+} co-doped Bismuth Ferrite, EEMR, CSIR - Institute of Minerals and Materials Technology, Bhubaneswar, Aug, 12-13, 2013

Kour P., Sinha S. K., Kumar Pawan and Kar Manoranjan, Dielectric and Nequist Plot of PZT (52/48) Ceramics, EEMR, CSIR - Institute of Minerals and Materials Technology, Bhubaneswar, Aug, 12-13, 2013

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Properties of PZT Ceramics., SPPS-2013, ISM Dhanbad, Nov. 18-20, 2013

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Kumar Pawan and Kar Manoranjan, Effect of Structural transition on Magnetic Properties of La and Mn co-substituted Bismuth Ferrite., SPPS-2013, ISM Dhanbad, Nov. 18-20, 2013

Kar Manoranjan and Kumar Pawan, Enhanced Magnetic Properties in Ho and Mn codoped Bismuth Ferrite, MagMA-2013, IIT Guwahati, Dec. 05-07, 2013

Kumar Pawan and Kar Manoranjan, Weak Ferromagnetism in Nd and Mn codoped BiFeO_3 Multiferroic. MagMA, IIT Guwahati, Dec. 05-07, 2013

Kour Paramjit, Kumar Pawan, Sinha S. K. and Kar Manoranjan, Effect of Neodymium Doping on the Dielectric and Impedance of PZT Nanoceramics, IUMRS-ICA, IISc Bangalore, Dec. 16-20, 2013

Department of Humanities and Social Sciences

Mishra Binod, Jhumpa Lahiri's, The Lowland: A Narrative Pattern of A Broken Family, 58th All India English Teachers' Conference, Vishakapatnam, Dec. 27-29 2013

Raj Papia, Virtual Diasporas: Space Negotiation of Call Centre Employees, 39th All India Sociological Conference, Mysore, 27-29 Dec. 2013

Raj Aditya, Critical Foundations of Migration and Diaspora Studies, 39th All India Sociological Conference, Mysore, Dec. 27-29, 2013

Tripathi Priyanka, Stretching the Spectrum: Rethinking Dalit Subalternity in Omprakash Valmiki's Joothan, Jamia Milia Islamia, New Delhi, Dec. 19-21, 2013

Students' Visit and Participation

Amit K. Jha, K. Patra and T. Szalay, Monitoring of Pre-failure phase and Detection of Tool Breakage in Mechanical Micro-drilling using Thrust Force and Torque Signals, 2nd International Conference on Intelligent Robotics, Automation, and Manufacturing (IRAM 2013), IIT Indore, Dec. 16-18, 2013

C. Verma, S. Harsha, K. Patra, A. K. Pandey and S. Singh, Fabrication and Characterization of Dielectric Elastomer Actuators, 2nd International Conference on Intelligent Robotics, Automation, and Manufacturing (IRAM 2013), IIT Indore, Dec. 16-18, 2013

Manish Kumar and Somnath Roy, Modeling Complex Thermal Boundaries using Immersed Boundary Method, 22nd National and 11th ISHMT Heat and Mass Transfer Conference, IIT Kharagpur, Dec. 2013

C. K. Nirala. and P. Saha., Towards the Development of a New Online Tool Wear Compensation Strategy in μ EDM-Drilling, pp.188-193, International Conference on Precision, Meso, Micro and Nano engineering (COPEN-8: 2013), NIT Calicut, Kerala, India, Dec. 13-15, 2013

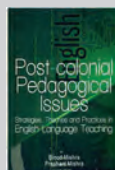
Nayak Peshal B., Compact Dual-band Antenna for Wlan Applications, International IEEE Flagship Conference called PIMRC'13, London, UK, Sept. 8 – 11, 2013

Books Published

Prof. A. K. Bhowmick has published a book entitled **Reverse Engineering of Rubber Products: Concepts, Tools and Techniques**, Taylor & Francis, CRC Press, USA



Dr. Binod Mishra has published a book entitled **Post-Colonial Pedagogical Issues: Strategies, theories and Practices in English Language Teaching**, New Delhi: APD, India. Dr. Mishra has also edited the 51st volume of **The Indian Journal of English Studies**, New Delhi: AESI. Dr. Mishra's book and journal were released by Prof. Rajnath (Senior Fulbright and Former Head, Dept. of English and Foreign Languages, Allahabad University) in 58th All India English Teachers' Conference at Vishakapatnam on 28th December, 2013



Prof. M. B. Sharan has published a book entitled **The Psychology of Super-Conscious Mind: An Inward Journey for Enlightened Living**, Concept Publishing Company, India, 2013



Awards/Fellowships and Honours

Dr. Aditya Raj, Assistant Professor in the Department of Humanities and Social Sciences, received the Professor M. N. Srinivas Memorial Prize 2013. Constituted in 2001, by the Indian Sociological Society, this prestigious prize is given to young Sociologist (under 40) for noteworthy publication.

Dr. Prashant K Srivastava, Assistant Professor in the Department of Mathematics, was awarded Best Teacher Award for 2013 by IIT Patna (instituted by SBI) on September 5th 2013.

Dr. Ranjan Kumar Behera, Assistant Professor, Electrical engineering Department has been selected for the prestigious Bhaskara Advanced Solar Energy (BASE) Fellowship Program supported by the Department of Science and Technology, Govt. of India, and the Indo-U.S. Science and Technology Forum (IUSSTF) for doing advanced research on Grid Interaction including Smart Grids and System Development and Integration in USA.

Kumar P., Ph.D. scholar received TCS Research Fellowship.

New PhD Students

Sr. No.	NAME	DEPARTMENT	Sr. No.	NAME	DEPARTMENT
1.	KUMARI SWETA	CIVIL & ENVIRONMENTAL ENGG	16.	SANJEET KUMAR NAYAK	CSE
			17.	DEBAJOTY BANIK	CSE
			18.	PRATIMA BISWAS	CSE
2.	AVIK RANJAN ADHIKARY	MATHEMATICS	19.	AKASH YADAV	CSE
3.	TANMAY KAYAL	MATHEMATICS	20.	SAPANA RANI	CSE
4.	PINTU KUMAR	ME	21.	ANGSHUMAN JANA	CSE
5.	MD QAISAR RAZA	ME	22.	RICHA MISHRA	CHEMISTRY
6.	SHUJA AHMED	ME	23.	SEEMA MANKESHWAR SINGH	CHEMISTRY
7.	DINESH KUMAR	ME	24.	CHANDAN PRAKASH	CHEMISTRY
8.	KRITI ARYA	ME	25.	KRITI GUPTA	HSS
9.	SATYANARAYANA MS	MS	26.	CHANDAN KUMAR	HSS
10.	SRIBALAJI M	MS	27.	ABDUL RAUF KHAN	EE
11.	KUSHAL SINGH	MS	28.	AMIT KUMAR PANDA	EE
12.	AKASH ARYA	PHYSICS	29.	RAKESH PALISETTY	EE
13.	SUMIT BHUSHAN	PHYSICS	30.	JITENDRA GUPTA	EE
14.	SUNIL KUMAR	PHYSICS	31.	SUBHRADEEP PAL	EE
15.	RAM NARAYAN YADAV	CSE	32.	MD ASIF HASAN	EE

Training and Placement

Training and Placement Cell is actively involved in activities related to summer training and internships for the pre-final year students as well as the placement of the final year B. Tech and M. Tech students who would be graduating in May, 2014. The Cell publishes Training and Placement Brochure every year for circulation to the prospective employers. The brochure the list of includes the private industries and financial, companies, public sector undertakings and government agencies. The Cell arranged the summer internship for 114 pre-final year B.Tech students in private companies, public sector undertakings, R & D Organizations and Universities abroad. Some of these include Microsoft-IDC, Amazon, CISCO Systems, IBM, Alumnus Software Ltd, TIFR, IDBRT Hyderabad, Belzabar Software Design, Rockwell Collins, Silabtech, Tektronix India Ltd, PGCIL, Morphing Machines Pvt Ltd, Entuple Technologies, Megatherm, HAL, BHEL, AERB Mumbai, ONGC, IOCL, BPCL, Mahindra & Mahindra, Indian Railways, Tata Hitachi, Hero MotoCorp, Tata Motors, MECON Ranchi, DRDO, CMERI & CAIR Bangalore. Fifteen students were offered paid summer research internship abroad in USA (University of Houston & Rice University Houston, University of Wisconsin, Madison), Canada (University of Saskatchewan), Germany (UMIC, RWTH Aachen under DAAD), Australia (University of South Australia) and New Zealand (University of Auckland).

The campus placement session started in September 2013 with reputed companies like Google, Indian Navy, Samsung, Amazon, Microsoft IDC, Hero Motocorp Ltd, Cisco Systems, Finisar Malaysia, TCS Innovation Lab, DRDO, Bank of America, Masamb Electronics, Tricon Infotech and IBM. They made 40 offers to our final year students. In all 18 companies visited the Institute for campus placement of our graduating students and made 40 offers in the first phase of placement process. The highest package offered was 17.05 LPA by Microsoft IDC. The second phase of placement process starts from January 2014 and 10 companies and organizations have registered for recruitment and many more are in the process. The Institute intends to achieve cent percent placement for the graduating students and for which the Cell emphasizes on the developing students' soft skills like verbal communications, personality development and general awareness for better performance in the interview boards. The Cell organized several lectures, workshop on Pre-Placement training and demonstration by experts to the students for the development of these skills.

Events held at IIT Patna

NEBULA - 6th August, 2013 (Foundation Day)

The House of Socio-culture Affairs, IIT Patna organised a welcome party for the new students. The party began with a lamp lighting ceremony, shortly followed by formal introductory speeches by the Chief Guest Mr. N.K.Sinha, Principal Secretary, Information and Technology, Govt. of Bihar and Guest of Honour, Mr. Sanjay Mishra, Visiting Professor from University of Kansas.

The gathering witnessed a multitude of activities ranging from dance to singing, to mime and to haute-couture. IIT Patna watched the first ever Mime performance in the institute aptly acted by first year students depicting the varied mindsets of a person in different situations. The excitement augmented

to a joyful high when the fashion show embarked on. Beginning the charismatic show, the fresh batch put up an attractive and a stimulating fashion show in which gorgeous looking girls and smartly dressed boys walked the ramp for the coveted Mr and Miss Fresher's title. The contest, held in a number of rounds was keenly contested and judged the students on different parameters. Ms. Amolika Sinha and Mr. Don Denis were adjudged as Ms. Fresher & Mr. Fresher.



Student performing Dance



Students performing song



Audience



Students performing Dance



Students performing a Comedy

Entrepreneurship Club

IIT Patna has now become one of the very few institutes in the country to offer a course on Entrepreneurship and Innovation as a part of its academic curriculum. The course has been introduced as an open elective for third year students and aims to educate students about the nuances involved in business and innovation. The course is being taught by eminent faculties like Shri Ajai Chowdhry, Co-founder, HCL, Dr. Sanjay Mishra, Professor, Kansas University, Dr. Anjan Raichaudhuri, Professor, IIM Kolkata, Dr. Prabina Rajib, Professor, VGSOM, IIT Kharagpur. Drawing inspiration from the IIMs, the Entrepreneurship Club initiated the culture of conducting 'Late Night Lectures' at IIT Patna which saw distinguished professors and entrepreneurs like Dr. Harish Hande, Founder, SELCO and Mr. Arjun Malhotra, Co-founder, HCL, interacted with the students about setting up and sustaining business ventures. Furthermore, an Innovation Centre has been established on campus to encourage and incubate the students' innovative technology projects. The Club also organized the first ever techno-management week of IIT Patna, 'Celesta' which included Guest Lecture from Mr. Manish Kumar, Co-founder, Farms n Farmers and range of events such as B-Challenge, B-Debate, B-Quiz, Stockmart, Time-shift Marketing and Live Monopoly which saw active participation from IIT Patna student community.

Independence Day 2013

The students and teachers of the Indian Institute of Technology Patna, celebrated the Independence Day with a great passion and patriotic fervour. The function started with the flag hoisting ceremony by Hon'ble Director of IIT Patna, Prof. Anil K. Bhowmick. This was shortly followed up by an inspiring speech by the director. Lined up next were the jingoistic events organised by the students of IIT Patna. The intellectual minds presented a mélange of cultural activities, which created an atmosphere of national pride on the premises of the institute's campus on Thursday. House of Socio-Cultural Affairs, IIT Patna organized a street play insinuating to "Always Fight for Right and Wise".



Flag Hoisting by the Director



Speech by the Director



Students performing a Nukkad Natak

The Bhakti-Vedanta Club of IIT Patna on the occasion of Independence Day organised a lecture on "Mind - Greatest Enemy or Dear most Friend" by H. H. Bhakti Charu Swami with the rationale that every intelligent person should learn to control his mind and lead a peaceful life. Mind control plays a decisive role in determining the performance and shaping the future of a person and evidently the progress of a nation depends on the way a person works in his life time. On the amusing and entertaining side, House of Literature and Fine Arts arranged the screening of a movie: "Chak De India in the latter half of the day" spreading the love for the country and the team-mates. Throughout the day, it was a rich experience for the students of IITP who cherished the value of freedom and patriotism and pledged to value their country ahead of all.

Teachers' Day 2013

Indian Institute of Technology, Patna celebrated Teacher's Day with full vigour and gratitude showing respect for the teaching community and thanking them for whatever they have done for us. The show began on a traditional note by garlanding the portrait of Dr. Sarvapalli Radhakrishnan. Hon'ble Director, IIT Patna, Prof. Anil K. Bhowmick threw light on Dr. Radhakrishnan's inspiring life and urged students to follow the principles defined by his life. The Chief Guest for the evening, Hon'ble Chairman, BoG, IIT Patna Mr. Ajai Chowdhry emphasized the importance of teachers in shaping up an individual. The cultural programs of the evening regaled the crowd. The organizers of the show, House of Socio-cultural Affairs, IIT Patna discovered a golden opportunity to launch their website officially to keep the student community all over the country updated with the happenings at IIT Patna. Along with the unveiling of the website of HoSCA, the College Radio developed by the students of IIT Patna was also launched. This radio serves as a single platform for all tastes of music. The programme ended with the inauguration of a Self-development and Wellness centre to help students lead a successful existence. It was altogether a memorable evening, both for teachers and students which ensured the bond between a teacher and his students gets cemented.



The Chairman BoG garlanding the portrait of Dr. Radhakrishnan



Students performing Cultural Program



Dr. P. K. Srivastava, Department of Mathematics receiving Best Teacher Award 2013

Reverberance 2013

The House of Socio Cultural Affairs and The House of Literary and Fine Arts organised an inter-hall fest on the eve of Diwali. The fest continued over a period of three days starting from 1- 3 November, 2013 comprising multitude of events ranging from various cultural, literary and gaming events. Various halls competed against each other to win the most coveted 'Hall Trophy' for 2013. The cultural



activities included Dumb charades, Antrakshari, Dance and Singing Competition, Halloween Decoration, Band Wars and many interesting Just a Minute rounds while Wall Painting, Story Writing, Movie Screening comprised the literary events. The most awaited and significant event Aura, organised on the Diwali night saw enthusiastic participation from all the halls where an array of beautiful models depicting the festival of Diwali were put to display. Ashoka Hall topped the points tally and emerged as the winner of the fest and retained the Hall Trophy.

Students being felicitated by the Director

Korean Cultural Exchange Programme

With the aim to share and experience each other's culture, the Youth in Action, a student venture in association with House of Socio-cultural Affairs, IIT Patna, organized a cultural exchange programme on 2nd October, 2013. In the first ever international cultural exchange meet at IIT Patna, a group of students as representatives from Korea visited the campus of IIT Patna to showcase their rich culture and tradition and share the common message to spread love and harmony all throughout the world. The evening started with a group dance performance by the troop on the famous song 'Jai Ho' which mustered huge applause from the audience. The enthusiastic and lively group put up a serene skit play conveying the message to share the happiness and love to bring in the peace and harmony. They displayed an array of taekwondo moves captivating the audience. Extracting out the time between the mesmerizing performances, some traditional Korean games were put on the floor to be contested among the enthralled audiences. The highlight of the evening was yet to out. The fan dance also called Buchaechum, was performed by the group. The dancers represented various images as of birds, flowers, butterflies and waves using the colourful fans. The series of gleaming performances continued with an acapella, a solo or group singing without instrumental sound. The prime objective of the cultural exchange programme was put up by a video, shown to the audience depicting love and harmony as the best solutions to all the problems existing in the world.



Celesta 2013

Celesta – the annual techno-management week of IIT Patna, is organized every year during the spring semester. It provides a platform for the students of IIT Patna to exhibit their skills and compete against one another in a variety of events. The technical events of Celesta are organized by technical clubs of IIT Patna namely NJACK, Sparkonics, SCME and SAE. These events are based on robotics, circuit designing, programming and automotive technology. Management events such as B-Challenge, B-Debate and many more were introduced in Celesta 2013 for the first time. These events were organized by the Entrepreneurship Club of IIT Patna. During Celesta, eminent guest lecturers are invited to give a talk on various topics. Mr. Manish Kumar, co-founder of Farms n Farmers gave a lecture on hurdles of social entrepreneurship, which motivated many students to pursue social entrepreneurship.

Google GetSocial

IIT Patna has been adjudged the 2nd Runners Up at 'Google GetSocial', a national level social media marketing challenge organised by Google India. The competition was spread over a period of 9 months and witnessed participation from the premier engineering and management institutes of the country, including all IITs and IIMs. IIT Patna is the only new IIT to figure in the top 3. The team comprised Chaitanya Kansal (B.Tech. CSE Fourth Year), Gurveer Singh Pahuja (B.Tech. CSE Fourth Year) and Gourav Parihar (B.Tech. CSE Class of 2013).

Forthcoming Events

Department of Materials Science and Engineering in association with Hari Shankar Singhania Elastomer and Tyre Research Institute (HASETRI) is organizing an International Workshop on Reverse Engineering of Rubber Products and International Conference on Polymers and Allied Materials during May 30-31, 2014.

Literary Corner

A REPENTANCE

Ravneet Kaur

1301CH15, U.G- II Semester
Chemical Science and Technology

I hated my elder brother. He was the only one I had in my family but I hated him. He was much elder to me. He worked as a labourer in factory owned by my friend's father. My friends used to make fun of me. I was always bullied because my guardian was not a powerful person but just a humble labourer. I felt humiliated. I never used to speak to him about anything except for my work. I felt ashamed when he used to come to meet my teachers in school. I used to hate the fact that a man dressed in tattered clothes called himself my brother. I never knew why he had not completed his education and used to hate him for the fact. Though he provided me with good uniform and tried to give me what you can call a good education, I still hated him. I got good marks in school which is why I got admission in a prestigious college. I passed all my exams with flying colours but my hatred for my brother never decreased. When I was out of college with a good job in my hands, I left the town and went to the city. Initially I used to write to him, asking formally about his well-being and sending him some money. But soon I lost contact with him. One fine day a man came to me for getting his son admitted in the college of which I was the Principal. From his mannerisms he looked as if he were my elder brother. For completing the formalities, I asked him about his qualifications. He told me that when he was in his seventh grade, his parents died in a car accident leaving him and his one year old brother behind. He had no money so he started to work. But in those times of war and crisis he could earn money only to feed himself and his brother. So he left his education. When he told me his name I was left dumbfounded. I could do nothing but cry. I cried hysterically. I went up to him and hugged him. I did not know what to say.

FROG

Udhaya Shankar J.S

1101EE35, U.G- III Year
Department of Electrical Engineering

"Man is a social animal".

The ability to think smart is the only factor destined on man that creates a line of difference between himself and an animal. He is considered at par with any other animal in all the other means of survival. Thus, a frog is not an exception and will be appropriate to model the thought process of a man.

A simple and classic imagery that strikes is 'Frog in the well'. Simpler the comparison, more substantial is the content delivered. This is widely used to cite the ones who are narrower in vision just like a frog that perceives the well around it to be the whole world, paying a keen disregard to the surroundings outside. Such a frog tries to look out for the holes within the well and tries to get the most comfortable place in the shallows.

A smarter frog, on the other hand, shirks itself from the comfort zone and prepares to enter the risk zone. It starts searching for options to get rid of the surface that covers its body and conceals its vision. Yes! Its vision is broader than that of its fellow mates who are busy in search of the best places within the well. It is not at all concerned with the ways of survival as it is well known that there are millions. It looks out for lizards and spiders while rest of the frogs are burping after feeding on insects and worms.

It differs from the rest in the manner of search. It explores outwards whereas the others do inwards. 'SEARCH' is a word that means nothing when superficially examined. On a closer view, it is a powerful key that turns an ordinary frog into a smarter one, only when possessed.

SEARCH induces a driving force that in turn offers an impulse for a frog stuck in the depths to take a giant leap above. Stronger the ability to search, greater is the force induced and higher is the height jumped.

This act of leaping to greater heights becomes a continuous process in case of SUPER SMART frogs which are reluctant to settle at ordinary depths. As said earlier, the key SEARCH is so powerful that it incites 'unsaturation' to some degree with the passage of time. Undoubtedly, the reluctance to settle down is an outcome of 'unsaturation' and 'relentlessness' comes as a by-product.

A SUPERSMART frog that has started its journey long back keeps moving from a well to a pond and from pond to a river and from

Literary Corner

river to a sea and so on. This voyage continues as long as the frog survives and ultimately lives in exalted greatness even after death.

Moreover, SUPERSMART frogs are one of the rarest species found in the ecosystem. Their popularity can be attributed to their virtue of being 'rare' and thus 'unique'.

It is worth noting that the ultimate power of the key SEARCH enables an ordinary frog to transform itself into a SMART frog and eventually into a SUPER SMART frog.

In pragmatic terms, it is harder for a frog to hold the key SEARCH throughout the journey. When the current of river or that of a sea is heavier, there are fair chances of losing the key. It is obvious for a frog to retain the key all throughout the journey so as to become SMART and then SUPER SMART.

चंद्रिके !

राज कुमार राजहंस
1221MA05, शोधार्थी
गणित विभाग

चंद्रिके! तेरा यह चंद्रमुख,
चाँद की धवल चाँदनी,
उसकी कोमल शीतलता,
कुसुमित कली की मुस्कान,
और रात्रि की नीरवता !

मृगनयने! तेरे ये निश्छल नयन,
समुद्र - सी असीम गहराई,
नीलम की सी नीलिमा,
रहस्यमयी आँखों की भाषा,
किसे यह आमंत्रित करता!

रूपसि! तेरे ये गुलाबी अधर,
कली की विचुम्बित पंखुरी,
सुधा - रस की मादकता,
किसकी ये प्यास बुझाता,
किसे यह आमंत्रित करता!

सुकेशी! तेरी ये जुलफें,
नागिनों के अनगिनत डोरें,
और उनमें गुँथे सितारे,
किसे डंसने को लुभाता,
किसे यह आमंत्रित करता!

यौवानिके! तेरा यह यौवन,
लहरों की - सी उन्मत्तता,
नदियों की - सी चंचलता,
निगलने को आतुर अंगारा,
किसे यह आमंत्रित करता!

अप्सरे! तेरा यह अप्रतिम रूप,
इंद्रलोक की अप्सरा,
परियों की तू है परी,
उपवन की शोभा बढ़ाता,
किसे यह आमंत्रित करता!

शीत ऋतु

सुमन कुमार
१०२१ एम ए ०१, शोध छात्र
गणित विभाग

कार्तिक मास, शीत का आगमन,
अग्रहायन करता, अलौकिक स्वागत।
शुष्क पवन का शीतल अनुभव,
दन्त दिखाते अंदरूनी कम्पन।
जब आता पौष, काँपती काया;
घना कोहरा, दिन अँधियारा।
दुर्लभ होते दिवाकर-दर्शन,
चाँदनी रात होती दिवा-स्वप्न।
शुष्क पवन की बढ़ती धड़कन,
जीव-जंतु का सिमटता तन-मन।
माघ आता लेकर सुखी,
चेहरे पे आ जाती हँसी।
आ जाता मौसम में बहार,
होने लगता एक ही प्रचार:
जियो खूब खुशियाँ अनन्त,
क्योंकि आ गया है वसंत।

ASSETS AND LIABILITIES

Sangita Roy
PhD Student, Dept-Computer Science and Engineering
1121CS02

Look at the rose,
The grace of the garden-
And get your mental peace;

Look at the baby,
An angelic beauty,
And give your sweetest kiss.

Look at the space,
The boundless blue-
Beset by planets and stars;
Only a silent glance is enough-
To end all cravings and desires.

Construction Activities of IIT Patna at Bihta



Administrative Block



Academic-Block 6



Academic-Block 9



Workshop



D Type Quarters



B Type Quarters



Boys' Hostel



Academic-Block 4

Editorial Collective

Impulse Newsletter 2014, Vol- VI, No. 1, compiled and edited by Dr. Binod Mishra and Dr. Priyanka Tripathi, School of Humanities and Social Sciences.

Information for Impulse can be sent throughout the semester to the editorial team on the following e-mail ids: binodfhss@iitp.ac.in | priyankatripathi@iitp.ac.in

Academic Calendar Spring Semester 2013-14

EVENT	DATE	DAY
Registration for all existing UG & PG students and Registration for all new PG entrants (PhD students)	Dec 31, 2013	Tuesday
First day of Instruction for B. Tech. and M. Tech. Programmes	Jan 01, 2014	Wednesday
First day of Instruction for Ph.D. programme	Jan 06, 2014	Monday
Last date for late registration with fine	Jan 06, 2014	Monday
Last date for course adjustment for B. Tech. and M. Tech. programmes	Jan 07, 2014	Tuesday
Communicating the list of short attendance cases to respective Faculty Advisors / Supervisors	Feb 10-14, 2014	Mon to Fri
Mid-semester Examination (MSE)	Feb 17 – 22, 2014	Mon to Sat
Last date for showing mid-semester answer copies to students	Feb 28, 2014	Friday
Mid Semester Review of UG projects (without affecting the regular classes)	Between March 03, 2014 and March 07, 2014	
Last date for Review of Mid semester performance of all students by Department UG & PG Program Committee and report of academically weak students to their Faculty Advisors/Supervisors	Mar 07, 2014	Friday
Last date for assigning final-year-project to pre-final year B. Tech. and M. Tech. students	Mar 13, 2014	Thursday
Mid-semester Break for students	Mar 14-18, 2014	Fri to Tue
Last date for sending list of courses to be offered in next semester	Mar 19, 2014	Wednesday
Last date for General Time Table slot allocation for next semester	April 17, 2014	Thursday
Course Evaluation Week/Course Pre-Registration Week/Submission of applications for changing the Branch for B. Tech. second semester students / Communicating the final list of short attendance cases to Academic Section through their Faculty Advisors or Supervisors	Between April 21, 2014 and April 25, 2014	
Display of list of detained students in End Semester Examination due to short attendance by the Academic Section	April 25, 2014	Friday
Last day of Instructions	April 25, 2014	Friday
End Semester Examination (ESE)	April 28–May 03, 2014	Mon to Sat
Last date for submission of Grades	May 08, 2014	Thursday
Last date for Department UG & PG Program Committee meeting for considering results of all students. Last date for submitting hard copies to the Institute UG & PG Program Coordinators	May 09, 2014	Friday
Last date for Make-up-Examinations for students having “I” and “X” grades and submission of letter grades to the Institute UG & PG Program Coordinators	May 11, 2014	Sunday
IAPC meeting	May 12, 2014	Monday
Declaration of Results	May 13, 2014	Tuesday
Submission of fee for Autumn Semester 2014-15	Between May 14, 2014 and the day of Registration for coming Autumn Semester 2014-15	
Last date for finalization of Branch Change	May 15, 2014	Thursday
Registration for M. Tech. students for Third Semester	May 16, 2014	Friday
Summer Break begins (Only for UG students)	May 05, 2014	Monday
Summer Vacation (Only for Teachers)*	May 15 – July 14, 2014	Thursday to Monday
*Teachers can avail their vacation leave according to the Institute rules.		
Industrial/Summer Training for B. Tech. students of all branches after sixth semester (8 weeks training during summer break)	Between May 05, 2014 and July 04, 2014	
Registration of students for the Summer Quarter (SQ)	May 20, 2014	Tuesday
SQ classes begin on	May 21, 2014	Wednesday
Mid-Term Examination for SQ	June 12 – 14, 2014	Thu to Sat
Conduct of written Test/interview by Departments for M. Tech. and PhD admissions	May 19 - 30, 2014	Mon to Friday
Last date for registration of students for supplementary courses	June 30, 2014	Monday
SQ classes end on	July 09, 2014	Wednesday
End-Term Examination for SQ & Exams for supplementary courses	July 10-12, 2014	Thu to Sat
Make-up-Examination for SQ	July 14-15, 2014	Mon and Tue
Last date for submission of grades for SQ and supplementary courses	July 16, 2014	Wednesday
IAPC meeting and declaration of Results of SQ and supplementary courses	July 17, 2014	Thursday