



## Our Vision

To build a vibrant multicultural learning environment founded on value based academic principles, wherein all involved shall contribute effectively, efficiently and responsibly to the nation and global community.

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## From the Director's Desk

With renewed hope of success, prosperity, peace and capacity to face bigger challenges, we stand on the verge of another year. This latest issue of newsletter puts on record the tremendous efforts made by faculty, staff and students in emancipating their responsibilities brilliantly and keeping the Institute marching ahead. The newsletter gives a glimpse of various activities at NIT Hamirpur which show that the Institute is competing nationally and globally in an endeavor to supplement the research and development, faculty & staff development, community services and providing exposure to students to make them capable of taking up challenges independently.



Prof. I. K. Bhat, Director

Today, more than ever, all of us need to develop a comprehensive picture of what is happening across the country and globally in various spheres of technical education and professional development.

Developmental works are better paced and organized only when there is better communication. New and emerging areas need to be highlighted in proper forums. After all, science and technology have recently come to be viewed as socially embedded enterprises. None of us can afford the luxury of working alone, marooned on exclusive islands of our private interests. It is earnestly hoped that information of the research and development activities on NITH campus would fill in some pieces in the overall map at national and international level. During past four months a lot of programmes viz. short term courses, workshops, community development programmes, tribal development programmes, national level student convention and varied student activities has been organized. The organization of such activities on one hand provides interaction among technocrats and stake holders of technical institutions and on other hand helps in management capacity building of faculty, staff and students.

In addition to the participation of students in different decision making bodies we also give our students a free environment, where creativity is not hindered and thought process is not bound to the limits. But with freedom comes additional responsibilities - responsibility to actively take part in your learning, and to manage your time to handle all of your commitments; responsibility to understand the Institute policies and to abide by them; responsibility to understand what you need to graduate. One of the best things, which affects the personality development of students is the learning vis-a-vis teaching style. Our efforts in this direction are to follow ABET system's 3a to 3k criterion.

This is essence of the hour that after getting the Institute acknowledged at various national platforms, we strive to establish ourselves internationally. We are putting efforts to get accredited through Accreditation Board for Engineering and Technology, which is American system of accreditation. Highly recognized participation of one of our students at Global Student Forum on Engineering Education at Cape Town South Africa, strengthened our viewpoint that we have strengths to move beyond national boundaries. Success stories of our alumnus based in India and abroad further substantiate this stance.

On the occasion of New Year, I extend my heartiest good wishes to all readers, students, faculty members and technical and administrative staff of the Institute. I take this opportunity to thank and compliment the editorial board of Institute Newsletter for their persistent efforts in collecting and compiling the data without which it would not have been possible to place this newsletter in your hands.

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## Conferences / Workshops Conducted



Proceeding release of "National Conference Mechanism Science: Theory to Application (NCMSTA-08)"



Group photograph of "National Conference Mechanism Science: Theory to Application (NCMSTA-08)"



Lighting of lamp at inauguration of AOWC-08 workshop, E&CED NIT Hamirpur

• A **National Conference on Mechanism Science: Theory to Application (NCMSTA-08)** was organised by Department of Mechanical Engineering during November 13-14, 2008. Major General P. N. Koul, Additional Surveyor General, Survey of India, Chandigarh was the Chief Guest of the inaugural function. Prof. S.K. Saha, IIT Delhi and Prof P.B. Mahapatra, PEC, Chandigarh were the guest of honour of the conference. On the opening day Major General P. N. Koul, Prof. S. K. Saha and Prof P.B. Mahapatra delivered the keynote addresses. In the Post lunch session Prof S. K. Saha and Prof A.D. Bhatt chaired a technical session and Major General P. N. Koul and Prof P.B. Mahapatra chaired another parallel technical session. On the first day the participants presented 26 technical papers. On the next day Prof. R. K. Sahoo from NIT Rourkela and Prof. J. A. Vaz, NIT Jalandhar deliberated the keynote addresses. AIMIL India limited presented their products on conditioning monitoring before lunch. In the post lunch session Prof R. K. Sahoo and Dr. Rajiv Sharma chaired a session. The other parallel session was chaired by Prof. J. A. Vaz and Dr. N. S. Thakur. On that day 25 technical papers were presented. On the basis of the recommendations of the jury, Mr. C. T. Singh, Sikkim Manipal Institute of Technology was awarded the best paper award in faculty section on his innovative work. Mr. Vijay Thakur from NIT Hamirpur was given the best paper award in the student section. Prof Bhat, Director, NIT Hamirpur was the chief guest on the Valedictory function and stressed that the teachers should understand their role. He emphasized that the teachers have a great role to play and must work towards upliftment of the society. 110 papers were published in the proceeding of the conference which includes papers from Politecnico di Torino, Corso Duca degli Abruzzi, Turin, Italy, Sharif University of Technology, Tehran, Iran, American University of Sharjah, Emirates and Texas A & M University, besides papers from all corners of India. The Conference conveners were Dr. S. K. Pradhan, Dr. Rajesh Sharma and Sh. A. Patnaik. This conference was sponsored by AIMIL (I) Limited, AICTE – New Delhi and Wardhan Corporation, Shimla.

• Two days workshop on **Advances in Optical Fiber & Wireless Communication AOWC-08** was conducted by E&CED under TEQIP during December 5-6 2008 for faculty & students of technical institutes. The workshop was inaugurated by Prof. I. K. Bhat, Director NIT Hamirpur. 30 participants benefited from the workshop. Dr. Vinod Kapoor, Er. Ashok Kumar & Er Ashwani Kumar were the coordinators of the workshop.



## Short Term Courses / Workshops Conducted



Lighting of lamp at inauguration of the workshop on "Innovation in Technology"



Release of Proceedings of the STC on Fundamentals of HDL-Verilog & SPICE in E&CE Department



Er. Pradeep Sharma, delivering expert lecture during Robotics Workshop



Lighting of lamp at inauguration of the STC on Transformer Engineering and Practices

- Four-day workshop on **Innovation in Technology** was organized at NIT Hamirpur during August 5 - 8, 2008. Prof. T. J. David, IIIT, Hyderabad was the resource person for the workshop. During the workshop Prof. David stressed on the need for research that leads to patents, which is now essential beside international publication. The workshop Coordinators were Prof. Yog Raj Sood, and Dr. S. K. Pradhan. This workshop was organized by Continuing Education Centre, NIT Hamirpur.
- Short Term Training Programme on **Fundamentals of HDL-Verilog & SPICE** was inaugurated on September 23 2008 by Prof. RK Sharma, Dean IRD&C. STTP was conducted from September 23 to November 29 2008 by E&CED under SMDP-II for students of NIT Hamirpur HP. Various design aspects, programming techniques and lab sessions related to Verilog and SPICE were being conducted in the same. Coordinators were Dr. Rajeevan Chandel & Er. Philemon Daniel.
- Two days workshop on Robotics (**iRoboTricks-08**) was conducted in Electronics & Communication Engg. Department of NIT Hamirpur HP during October 18 - 19 2008. Prof. J.N. Sharma, Dean Academics was the Chief Guest of the inauguration function. Dr. Rajeevan Chandel, Head of Electronics & Communication Engg. Department motivated all the students to actively participate in such courses and technical events to groom their technical skills and learn team spirit as these help in personality development of the students in the long run. The entire SPEC-team and 144 students actively participated in the workshop. The workshop expert Er. Pradeep Sharma & Er. Rashmi from RoboSapiens, Kanpur were the main experts of the workshop. An insight and tricks about the design of the intelligent Robots was given to the students in this workshop. The students of various departments of NIT Hamirpur designed two Robots viz. i) Snooker Playing Robot and ii) Line Follower Robot.
- A short-term course on "Transformer Engineering and Practices" has been organized under TIFAC - CORE in EED of NIT Hamirpur during September 26-28, 2008. Twenty-two students of Govt. Polytechnic Hamirpur attended this course. Expert lectures were delivered and the faculty members of EED carried out lab demonstrations. Dr. Veena Sharma and Prof. Sushil Kumar were the coordinators for this course.



## Contact Meeting / Workshops Conducted



Lighting of lamp at inauguration of the Contact Meeting for Popularizing the National Fusion Programme (CMPNFP-08)



Students in Pranayam posture during "Healing Breath Workshop"



Inauguration session of the training programme on "Culture Building through Team Work"



Proceeding release of the Workshop on "Sustainable Development for the Hill Areas" (SDHA-08)

- Department of Applied Sciences & Humanities of NIT, Hamirpur has organized a one day **Contact Meeting for Popularizing the National Fusion Programme (CMPNFP-08)** (Northern Region), in association With Board for Research in Fusion Science & Technology (BRFST), INDIA & National Fusion Programme (NFP) at National Institute of Technology-Hamirpur, (H.P) on 29th November, 2008. Prof. I. K. Bhat, Director, NIT Hamirpur inaugurated this programme in the conference hall of the Institute auditorium. Dr. P K Atrey, Secretary BRFST was the Guest of Honour of the Inaugural Function. The organizing committee of this programme included: Prof. Ravi Kumar Sharma (Chairman), Prof. Y. D. Sharma (HOD, Appl. Sc. & Hum. Deptt.) Dr. Kuldeep Kumar Sharma (Convener). The aim of the meeting was to bring together people who are interested in taking up Research and Development Projects in the area of Plasma Science and in Nuclear Fusion. Eminent persons from the field of Fusion Science & BRFST. Dr. J. Govindarajan, Dr. Ravi A V Kumar, Dr. P K Atrey, Dr. Vijay Bedakihale, from Institute for Plasma Research Gandhinagar, Gujrat delivered expert lectures in this programme. There were about 63 faculty members & researchers from different institutions who participated in this meeting. The Participants were introduced to various aspects of NFP, BRFST and its R&D activities.
- Two parallel 12<sup>th</sup> and 13<sup>th</sup> "Healing Breath Workshops" (The Art of Living Course Part - I) have been organized from 23<sup>rd</sup> to 28<sup>th</sup> September 2008. Dr. Sunil was the Coordinator of these Workshops. 121 students attended these workshops.
- The 1st "Health and Happiness Yoga Workshop" (The Art of Living Yoga course) has been organized from 24<sup>th</sup> to 28<sup>th</sup> September, 2008. Dr. Sunil was the Coordinator of this yoga Workshop. 89 students / faculty have attended this yoga workshop.
- Library organized Workshop on "Usage of E-Resources" on 9.8.2008 for Faculty, Research Scholars and M.Tech. Students, and Workshop on "Motivation and Innovation" on 30.8.08 for Non teaching and Technical supporting Staff.
- Two days training programme on "Culture Building through Team Work" was organized by the Department of Applied Science and Humanities during August 9-10, 2008. It was attended by twenty six faculty members of the Institute. The programme was well received and appreciated by the participants. Sh. Dalip K. Parimoo, Sr. Consultant WEMAP was the resource person. Coordinators of the programme were Dr. Piar Chand and Sh. Yogesh Gupta
- A National Workshop on "Sustainable Development for the Hill Areas" (SDHA-08) was organised by Department of Architecture during October 31- November 1, 2008. Architect Prof. K. Jaisim, Jaisim-Fountainhead, Bangalore was the Chief Guest of the inaugural function. Prof. (Dr.) R.K. Pandit, MITS, Gwalior was the guest of honour of the workshop. On the opening day, Prof. K. Jaisim, Prof. (Dr.) R.K. Pandit and Prof. I.K. Bhat, Director, NIT-Hamirpur (H.P.) delivered the keynote addresses. Resource persons for the workshop were Prof. K. Jaisim, Prof. (Dr.) R.K. Pandit, Ar. Akshay Kaul, Landscape Architect, New Delhi, Ar. Sanjay Prakash, and Mr. Vijay Uppal, Chief Architect, HPPWD, Shimla. 130 participants from IET- Bhaddal, Lovely Institute of Technology, Jalandhar and NIT-Hamirpur (H.P.) and other organisations were benefited from this Workshop. This workshop was sponsored by SJVN Limited, NTPC-Koldam, Bosch India and IPM, Delhi. The Workshop conveners were Prof. Minakshi Jain and Ar. I.P. Singh. Ar. Amitava Sarkar was the coordinator of the workshop.

## Papers Published in Journals (International)

- A. C. Katoch and **K. K. Sharma**, “CKM-favored and -suppressed  $\eta$  and  $\eta'$  meson decays to a pseudoscalar and a tensor meson”, *Ind. J. of Pure and Applied Phys*, 46, pp.685-694, 2008.
- **A. K. Gathania**, “Critical behaviour of the order parameters at the SmC\* to SmA phase transition in a ferroelectric liquid crystal mixture”, *Liquid Crystals*, 35(7), pp. 773 – 776, July 2008.
- **A. S. Singha** and V. K Thakur “Fabrication and study of Lignocellulosic Hibiscus Sabdariffa Fiber Reinforced Polymer Composites” *Bioresource (USA)* 3 (4), pp. 1173 -1186, 2008.
- **A. S. Singha** and V. K. Thakur “Synthesis and Characterization of Pine Needles Reinforced RF Matrix Based Biocomposites” *E-Journal of Chemistry (DOAJ)*, 5(5) pp. 1055-62, 2008.
- A. Satapathy, **A. Patnaik** and M. K. Pradhan, “A Study on Processing, Characterization and Erosion Behavior of Fish (Labeo-rohita) Scale Filled Epoxy Matrix Composites”, *Materials and Design*, DOI: 10.1016/j.matdes.2008.10.033.
- D. R. Parhi, **S. K. Pradhan**, A.K.Panda, R.K.Behera, “The stable and precise motion control for multiple mobile robots”, *Applied Soft Computing*, DOI: 10.1016/j.asoc.2008.04.017.
- **J .N. Sharma**, D. Kaur, “Generalized thermoelastic plane harmonic waves in materials with voids”, *International Journal of Applied Mechanics and Engineering*, 31 (1), 2008.
- **J .N. Sharma**, I. Sharma and S. Chand, “Elasto-thermodiffusive surface waves in a semiconductor half-space under laying a fluid with varying temperature”, *Journal of Thermal Stresses*, 31, pp. 956-975,2008.
- **J .N. Sharma**, R. Sharma, “Modeling of Thermoelastic Rayleigh Waves in a Solid Underlying a Fluid Layer with Varying Temperature”, *Applied Mathematical Modeling*, 33, pp. 1683-1695, 2008.
- M.Y. Al-Aghbari, and **R. K. Dutta**, ,”Effect of Cement and Cement By-Pass Dust on the Engineering Properties of Sand”, *International Journal of Geotechnical Engineering*, 2(4), pp. 425-431, 2008.
- **R. Chandel**, Y. Nataraj, **G. Khanna**, “Performance Analysis of Voltage-Scaled Static and Dynamic CMOS Circuits”, *Journal of Nanoelectronics & Optoelectronics*, ASP, USA, 3(2), pp. 171-176, 2008.
- **R. K. Dutta**, and **V.K. Sarda**, "A Comparative Study of Compaction and CBR Behaviour of Stone Dust Reinforced with Waste Plastic Strips", *International Journal of Geotechnical Engineering*, 2(3), pp. 255- 264, 2008.
- **R. K. Dutta**, "Effect of cement on the properties of sand - a comparative study", *Road Material and Pavement Design - An International Journal*, 9(2), pp 323-332, 2008.
- R. M. Warkhedkar, **A. D. Bhatt**, “Material solid Modeling of human body: A heterogeneous B-spline based approach”, *Computer Aided Design*, doi:10.1016/j.cad.2008.10.016, 2008.
- **R. Naresh**, **V. Sharma** and Manisha Vashisth “An Integrated Neural Fuzzy Approach for Fault Diagnosis of Transformers” *IEEE transactions on Power Delivery*, 23(4), pp 2017-2024, October 2008.
- **S. Sharma**, and R. Srinivasan, “Evaluating relative importance of information for international positioning process: a quantitative study”, *Review of Business Research*, 8 (2), pp.132 – 145.
- S. Biswas, A. Satapathy and **A. Patnaik**, “Erosion Wear Behaviour of Polymer Composites: A Review”, *Journal of Reinforced Plastics and Composites*: DOI: 10.1177/0731684408097786.
- **S. Sharma**, and R.Srinivasan, “Differentiating International Positioning Process across industries: a comparative study”, *Review of Business Research*, 8 (1), pp. 22 – 37.
- **S. Sharma**, and R.Srinivasan, “Modeling of International Positioning Process for new trade endeavors: a radically succinct approach”, *Journal of Academy of Business and Economics*, 9 (1), pp. 27- 41.
- **Sunil** and Amit Mahajan: “A nonlinear stability analysis for rotating magnetized ferrofluid heated from below”. *Applied Mathematics and Computation*, (Netherlands), 204 (1), pp. 299-310, 2008.

## Papers Published in Journals (National)

- J. Singh, **Y. R. Sood**, P. Verma, “Review of Various Dissolved Gas Analysis (DGA) Techniques for Power Transformers”, *Icfai University Journal of Electrical & Electronics Engineering*, 1(4), October 2008, pp. 60-69.
- J. Singh, **Y. R. Sood**, P. Verma, “Transformer Insulating Oil”, published in *Electrical India, Special Issue on Transformers & Transformer Oil*, 48(8), August 2008, pp. 68-80.
- **R.K. Dutta**, “Effect of Contaminants on the Permeability of Sand- Kaolinite Mixture” *The Icfai University Journal of Soil and Water Sciences*, I(1), pp. 67-76, 2008
- **Y. R. Sood**, A. Tomar, “Developments in MTDC Systems”, *Electrical India*, 48(10), October 2008, pp. 78-88.



## Papers Published in Conferences (International/National)

- A. Chauhan, **R. Sehgal, R. Sharma**, "Determination of mid-plane oil temperatures in offset-halves journal bearing profile using different oils", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 376-381
- A. Kapil, and **S. Chand**, "Preparation and Characterization of chemically synthesized conducting Polyaniline doped with p-Toluenesulfonic acid", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp.144-149
- A. Mahajan, **Sunil**, "A nonlinear stability analysis of a magnetized ferrofluid layer heated and soluted from below saturating a porous medium", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 150-159.
- A. P. S. Gaur, A. Pandey, **A. Patnaik**, A. Satapathy, "Sliding wear analysis of fiber reinforced polymer composites materials" *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 275-280.
- **A. Sarkar**, "Energy Efficient Shelter Design for the Kangra Valley in Himachal Pradesh", Conference Proceedings, *36th IAHS World Congress on Housing*, November 3-7, 2008, Kolkata, organised by IIT-Kharagpur.
- A. Satapathy, **A. Patnaik**, S. Mantry, "Erosive wear behaviour of fly-ash filled aluminium matrix composites" *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp.226-232
- A. Satapathy, **A. Patnaik**, S. Mantry, S. P. Sahu, "Development of Plasma Sprayed Composite Coatings" *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 233-239
- A. Singh, **S. Chauhan, N. Chauhan, R. Kumar, P. Singh, N. Gupta**, Performance of Wireless IEEE 802.11b Using HTTP 1.0 and HTTP 1.1, *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp.752-757.
- **A.K. Chandel** & P. Toki, "Dynamic State Estimation of power System Harmonic", *IEEE PES Conference*, Oct 12-15, 2008.
- **A.S. Singha** and V. K. Thakur "Synthesis of S.Cilliare Fiber Reinforced Green Polymer Matrix Based Composites" *Polyurethane - 2008* September 29 - October 1, 2008 Marriott Rivercenter San Antonio Texas.
- **A.S. Singha**, V. K.Thakur, "Mechanical Characterization of Grewia Optiva Fiber Reinforced PF Matrix Based Polymer Composites", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 829-835
- **A.S.Singha**, V. K. Thakur, "Surface Modification of Saccaharum Cilliare Fibers through Silane Grafting" *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 204-209.
- B. Gangil, **A. Patnaik**, A. Satapathy, "Effects of filler content on the sliding wear of hybrid polymer matrix composites" *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 281-287
- D. Singh, **R. Sharma**, "Wear Rate Determination through Condition Monitoring of Used Oil: A case study for IC Engine Oil", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 288-294
- **Hemant Kumar Vinayak**, Ashok Kumar, Pankaj Agarwal and S K Thakkar "NN based Damage Detection from Modal Parameter Changes" The 14th World Conference on Earthquake Engineering October 12-17, 2008, Beijing, China
- J. C. Mohanta, D. R. Parhi, S. K. Patel, **S. K. Pradhan**, "Mobile robot motion planning using improved artificial potential field method" *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 771- 780
- **K. Dutta**, N. Prakash, S. Kaushik, "Pronominal Divergence and Anaphora Resolution in English-Hindi Machine Translation", pp.733-738.
- Khoosboo Aggarwal and Lalit Awasthi, "Enhanced AODV routing protocol for ad hoc Networks" IEEE ICON, December 2008.
- Ankur Gupta, **Lalit K. Awasthi**, "NeighborTrust: A Trust-based Scheme for Countering Distributed Denial-of-Service Attacks in P2P Networks" IEEE ICON, December 2008.
- Ankur Gupta, **Lalit K. Awasthi**, "'PStore: A Scalable Peer-to-Peer Based Data Storage Framework", Presented at International Conference and Symposium on Storage Technologies, Dec. 2008.
- D. K. Jain, **Lalit K. Awasthi**, "Hybrid Multicast Routing Protocol for MANETs using Multipoint Relay", at International Conference on Wireless Networks & Embedded Systems (Wecon 2008), pp. 235-237, Oct. 2008.
- Y. Pal, **Lalit K. Awasthi**, A.J. Singh, "Node-to-node activation scheme for energy saving in object tracking Sensor Networks", at International Conference on Wireless Networks & Embedded Systems (Wecon 2008), pp. 182-184, Oct. 2008.
- Ankur Gupta, **Lalit K Awasthi**, "Parch: A Peer-to-Peer Based Email Archival Application" *International Conference ICDM*, pp. 622-630.
- K.K.Kamani, **R. Chandel**, V. Ravindrachary, Ismayl, **Gargi**, "Increasing trends of the accuracy in the Micro engineering metal structures and Nano engineering complexes with emerging advantages of Polymer multilayer, monolayer multifunctional Electronics", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp.188-195.
- **M. Sood, G. Khanna**, and J. Dutta, "Attaining Negative Permeability and Permittivity through Composite Materials", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 182 – 187.
- N. Agarwal, **S. K. Pradhan** and A. Gupta, "Setup planning of rotational parts in machining operation" *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur pp. 39-43
- **N. C. Kaushal, A. Kumar, N. Kumar, V. Kumar**, "MEMS Packaging- Material Requirement and Reliability Issues", *NCMSTA'08*, Nov 13-14, 2008, pp.718-724.
- N. Kumar, **A. Patnaik**, A. Gupta, S. Kumar, "Development and Sliding wear characterisation of pine bark reinforced polyester resin composites filled with cement by-pass dust (CBPD)", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 342-357
- N. S Kalsi, **R. Sehgal**, V. S Sharma, "Cryogenic Working in Machining Processes-A review, *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp.358-370
- **O. P. Rahi**, H. K. Thakur and **A. K. Chandel** "Power Sector Reforms in India: A Case Study", *International Conference Powercon 2008 & IEEE Power India Conference*, October 12-15, 2008, Inter Continental, The Grande, New Delhi.
- **P. Awasthi**, S. Dogra, **L. K. Awasthi**, R. Barthwal, "Interaction of mitoxantrone and its analogues with DNA tetramere sequences – A Computer Aided Drug Designing Approach (CADD)", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 636-651
- **P. K. Sharma**, S. K. Rana, "On the wave motion in homogenous isotropic thermo-elastic plates by using asymptotic method", *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp.319-329

- P. Sharma, **Sunil**, “Thermal convection in a rotating double-diffusive magnetized ferrofluid - nonlinear stability analysis” *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 382-391
- **Raman Parti**, “Fast Corridors for a metropolitan city”, 8<sup>th</sup> International onference on Transpotation planning and Implementation Methodologies for developing countries, (TPMDC-2008) at IIT Bombay, December 3-6, 2008.
- **R. K. Jarial**, R. A. Gupta, R. S. Anand, **Y. R. Sood**, “Performance Analysis of Static Kramer Drive”, *Proceedings of 2nd National Conference on Power Electronics and Intelligent Control*, September 13 – 14, 2008, MNIT Jaipur, pp. 6-11.
- **R. K. Sharma**, “PQI in SMEs – Using 7 QC Tools cum Techniques”, *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 725-732.
- **R. R. Dash**, C. Balomajumdar and Arvind Kumar, ‘Effect of Process Parameters on Adsorptive and Bio-removal of Cyanide Compounds from Contaminated Water’, *Proceedings of 6th International Symposium on Southeast Asian Water Environment*, Bandung, Indonesia from October 29-31, 2008.
- S. Biswas, A. Satapathy, **A. Patnaik**, “Analysis of Erosion Wear Behavior of Red Mud Filled Glass-Epoxy Hybrid Composites Using Taguchi Method”, *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 798-814
- **S. Chand**, “Simulation studies of current voltage characteristics of inhomogeneous Schottky diode with discrete distribution of barrier heights”, *International Conference on Advanced Semiconductor Devices and Microsystems ASDAM-2008* Smolenice Castle, Slovakia
- S. Gupta and **N. Chand**, “Security Framework against Malicious Attack in Wireless Sensor Networks”, *International Conference on Advanced Computing and Communication Technologies (ICACCT)*, pp. 559-562, Nov 8-9, 2008.
- **S. K. Pradhan**, D. R. Parhi, N. Agarwal, A. K. Panda, R. K. Behera, “A rule-based technique for motion control of mobile robots”, *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 652-661
- **S.R.Chauhan, A. Kumar, I.D.Singh**, “Study on the effect of water absorption on the physical and mechanical properties of glass fiber reinforced vinyl ester composites with different fiber loading”, *Proceedings of NCMSTA'08 Conference*, November 13-14, 2008, NIT, Hamirpur, pp. 295-308

## Courses, Seminars and Training Programmes Attended

- **A. K. Chandel** attended and presented a research paper titled “Dynamic state estimation of power system harmonics”, in IEEE PES conference (POWERCON 2008) at New Delhi, October 12 -15, 2008.
- **A. Sarkar** attended 36th IAHS World Congress on Housing, November 3-7, 2008, Kolkata, organised by IIT-Kharagpur.
- **D. Singh** and **S. Kumar** attended an Education & Training Program on “Operation of Antenna & Microwave Equipments” during September 15 - 19, 2008 at NITTTR Chandigarh.
- **D.S.Jaswal** Librarian attended a workshop on “IEEE Resources its usage and applications at IIT Delhi on August 15, 2008.
- **Gagnesh**, Er. P. Daniel and Er. Lalit Mohan attended IEP under SMDP-II on “Installation of Softwares” at CEERI, Pilani from October 14-18, 2008.
- **J. Kumar** attended a workshop on “Wireless Communication” at NITTR Chandigarh on November 24-28, 2008.
- **Pardeep Kumar** attended one week STTP at TU Patiala on “Structural steel Design” during 1-6 December, 2008.
- **Raman Parti** and **Hemant Kumar Vinayak** attended brain storming session on "Life Management of Indian Structures" held at Thapar University Patiala on August 27, 2008.
- **R. N. Sharma, R.K.Jarial** attended one-day workshop on “Active learning” held in NIT Hamirpur on September 7 2008.
- **R. R. Dash, K. K. Sharma, Amar Patnaik, Varun and Sidharth** attended a short-term course on “Developing Effective Communication” organized by EQUATE sponsored by TEQIP on July 16– 18, 2008 at NIT Hamirpur.
- **R. Sharma** attended a STC on “Object Oriented Programing With C++” at NITTR Chandigarh on November 24-28, 2008.
- **Raman Parti**, attended Holcim Award Ceremony for Asia Pacific at New Delhi on 27 November 2008.
- **Raman Parti** participated in Indian Roads Congress session from 13-16 Dec. 2008 at Kolkata.
- **S. K. Pradhan, R.K.Jarial, P Singh, R. Kumar**, attended workshop on “Innovation in Technology”, organized by Continuing Education Centre NIT Hamirpur, August 05 -08, 2008 at NIT Hamirpur.
- **S. K. Pradhan, R. K. Jarial, P. Singh, R. Kumar, N. Gupta, N. Chauhan, K. Dutta, S. Chauhan, V. Patial, S. Kumar, A. Gupta, Ramakant, and A. Agarwal** attended the Contact meeting under FUSION Program held at NIT Hamirpur on November 29, 2008
- **S. K. Pradhan, Varun, S. K. Soni, K. Kumar, G. Kumar, K. K. Sharma, M. R. Bharti, P. Singh, R. Kumar, N. Gupta, and N. Chauhan** have attended two days Workshop Training Programme on “Culture Building through Team work” during August 9-10 , 2008 at NIT Hamirpur (HP).
- **S. K. Pradhan, R. Kumar, N. Gupta, N. Chauhan, S. Chauhan** and A. Singh attended a workshop on “Advances on Optical and wireless communications”, on December 5-6, 2008.
- **S. Kumar** attended a STC on “Repair and maintenance of UPS and SMPS” , at NITTR Chandigarh on October 20-24, 2008.
- **S. Mehta, D. Kumar, R. Chand, S. Kumar, K. S. Atttri and D. Raj** have attended a workshop on “Motivation & Innovation, Module-I organized on 30 Aug 2008 at NIT Hamirpur.
- **V. Sharma** attended one day workshop on “Active learning” held in NIT Hamirpur on September 7, 2008
- **Y. R. Sood** attended Workshop on “Active Learning”, organized by NIT Hamirpur, September 07, 2008, at NIT Hamirpur.
- **Y. R. Sood** attended workshop on “Innovation in Technology”, organized by Continuing Education Centre NIT Hamirpur, August, 05 -08, 2008 at NIT Hamirpur.

## Lectures Delivered

- **A Sarkar** delivered lecture on “Cost-effective Building Materials and Techniques” in the STC on “Cost-Effective Building Construction Techniques” under Service to the Community Development Programme of TEQIP at NIT-Hamirpur (H.P.), organized by Department of Architecture during July 28- August 1, 2008.
- **A. K. Chandel** delivered an expert lecture on Power System Cooling techniques in the STC on “Power Transformer Engineering”, conducted by the EED for the Poly technique students under TIFAC on September 28, 2008.
- **A. Rana** from Mentor Graphics delivered Expert lecture on “FPGA Design” from Mentor Graphics on Aug18, 2008.
- **J .N. Sharma** delivered expert lecture on “Ordinary differential equations and their Applications” delivered ‘EDUSAT’, Higher Education Department, Haryana Government Punchkula Haryana on 05/11/2008 – through ‘A Live Telecast’
- **J .N. Sharma** delivered expert lecture on “Ordinary differential Equations” delivered in refresher course to college and university teachers at Academic Staff College, HPU Shimla on 21/11/08.
- **K. K. Sharma**, has delivered an expert lecture on “Fusion Energy An Alternate Source of Energy” in AICTE & MHRD, Govt. of India, sponsored Short Term Course on “Sustainable Energy Generation & Environmental Management” organized by Departments of Mechanical, Civil & Electrical Engineering, NIT-Hamirpur from June 16 - 27, 2008.
- **L. K. Awasthi** delivered talk on “Challenges in routing protocols for MANETS and wireless sensor networks” at workshop on “Advances in optical Fiber and Wireless Communication” held at NIT Hamirpur on 5-6, December 2008.
- **L. K. Awasthi** delivered invited talk on “Research Challenges in Mobile and Adhoc Networks- Fault tolerance Perspective” at A. B. Institute Institute of Information Technology and Management, Gwalior from 8-12 December 2008.
- **L. K. Awasthi** delivered an Invited talks on “Routing Protocols for Adhoc networks” and on “Challenges in Checkpointing Distributed computing Systems” at FDP at GND University, Amritsar, November 2008.
- **Narottam Chand** delivered an Invited Lecture on “Computer Fundamentals”, Regional Science Congress-2008, Jawahar Navodaya Vidyalaya Paprola, HP on 25 Nov 2008.
- **Narottam Chand** delivered expert talk on “Data Caching in Mobile Computing” in a Short Term Course on Mobile Ad hoc and Sensor Networks (MASN), IIITM Gwalior, October 13-17, 2008.
- **Narottam Chand** delivered expert talk on “Mobile Computing” in a Short Term Course on Wireless Networks (WN), IIITM Gwalior, December 8-12, 2008.
- **Narottam Chand** delivered expert talk on “Wireless Technologies” in a Workshop on Advances in Optical Fiber & Wireless Communication (AOWC), E&CED, NIT Hamirpur, December 5-6, 2008.
- **O. P. Rahi** delivered an expert lecture on the topic “Fundamentals of Power Transformer-I,” on September 26, 2008 to the participants of Short Term Training Program on “Transformer Engineering and Practices”, at Electrical Engineering Department, NIT Hamirpur under TIFAC-CORE project
- **O. P. Rahi** demonstration of the equipment “Moisture Analyzer, Domino” for online monitoring of transformer oil was given on September 28 2008 to the participants of Short Term Training Program on “Transformer Engineering & Practices”, organized by Electrical Engineering Department, NIT Hamirpur under TIFAC-CORE project.
- **P. Awasthi** delivered an expert lecture on " Chemistry of cellulose and Transformer Oil" in Short Term Course on " Transformer Engineering and Practices" funded and organized by TIFAC-CORE in Power Transformers and Diagnostics from 26-28 September, 2008 NIT Hamirpur (H.P)
- **Rajeevan Chandel** delivered expert lectures on “SPICE Fundamentals”, “SPICE Programming” October 13-15, 2008 in E&CE Deptt.
- **Rajeevan Chandel** delivered an Invited Lecture on “Electronics Engineering in Modern Era”, Regional Science Congress-2008, Jawahar Navodaya Vidyalaya Paprola, HP on 25 Nov 2008.
- **R. Jha Prof. & Head , ICE Deptt. NIT Jalandhar** delivered lectures on the topic “ Analysis of nonlinear control systems” on 23-08-2008 at NIT Hamirpur.
- **R. Jha, Prof. & Head , ICE Deptt. NIT Jalandhar** delivered lectures on the topics Digital Control System and Liapunov and Popov stability analysis on 06-09-2008 at NIT Hamirpur.
- **R. K. Sinha** from DCE New Delhi, delivered an expert lecture on “Recent Advances in Optical Fibers and Optical fiber communication”, on August 19 2008 in E&CE Department NIT Hamirpur.
- **R. R. Dash** delivered lecture on "Imputies in water" in STTP on “Water Supply and Sanitation Practices”(WSSP-08), July 22-26 2008 organised by Department of Civil Engineering, NIT Hamirpur.
- **R. R. Dash** delivered lecture on "Treatment of water and wastewater" in STTP on “Water Supply and Sanitation Practices”(WSSP-08), July 22-26, 2008 organised by Department of Civil Engineering, NIT Hamirpur.
- **Sushil Chauhan,** delivered expert lectures on “Power System Security” and “AI Tools for Power System Security Assessment” in a STC on “Advances in Power system Operation and Control” during Dec 1-5, 08 at NIT Kurukshetra.
- **V. Sharma** delivered a lecture “Importance of grounding/earthing and basic grounding practices” during community development workshop sponsored by Ministry of urban development held in EED, during July 14-18, 2008.
- **V. Sharma** delivered a lecture on “Data Acquisition Systems” during short term course on “Mechatronics and Robotics” held in MED, during July 12-21, 2008.
- **V. Sharma** delivered a lecture on “signal and systems” during short term course on “Mechatronics and Robotics” held in MED, during July 12-21, 2008.
- **Y. R. Sood** delivered expert lectures on “An Introduction to GA & EP” and “Deregulation of Electricity Industry”, at Haryana College of Technology & Management (HCTM) Kaithal (Haryana) on October 13, 2008.
- **Y. R. Sood** delivered series of lectures on “Genetic Algorithms and Evolutionary Programming” and “Moving towards Deregulation” during Staff Development Program on “Operation and Control of Modern Power Systems (OCMPS), July 07-18, 2008 at MNIT Jaipur.



## Services to Community Development Programme



Director, HOD, guests, faculty and participants of STC WAES-08, E&CED



The Chief Guest, Prof. I.K. Bhat, delivering his key-note address at the STC on "Cost-Effective Building Construction Techniques"

- One-week long short term course on **Working & Applications of Electronic Systems (WAES'08)** was organized by Electronics & Communication Engg Dept NIT Hamirpur from November 4 - 8 2008. Prof. I.K. Bhat, Director, NIT Hamirpur HP was the Chief guest. Prof RL Sharma Coordinator TEQIP and Sh Sanjay Sood DFO Hamirpur were the guests-of-honour. Prof. Bhat appreciated the efforts of the E&CE department in organizing a course on electronic systems for upgrading the technical skills of people of the neighboring community. Sixty-one participants benefited from the course. The Coordinators of the course are Dr. Rajeevan Chandel, Head E&CED, NIT Hamirpur, Er. Gargi Khanna Sr. Lect. and Er. Gagnesh Lect E&CE Deptt.
- One-week long short term course on **"Cost-Effective Building Construction Techniques"** was organized by Department of Architecture during July 28- August 1, 2008. Prof. I.K. Bhat, Director, NIT-Hamirpur (H.P.), was the Chief Guest. Prof. I.K. Bhat appreciated the efforts of the Architecture Department in organizing a course on the subject for creating awareness and upgrading the technical skills of people of the neighboring community. Forty participants benefited from the course. Prof R.L. Sharma, Coordinator TEQIP, was the chief guest on the Valedictory function. The Coordinators of the course were Ar. I.P. Singh, Head, Ar. Amitava Sarkar, Ar. Venu Shri, and Ar. Sandeep Sharma.

## Tribal Development Programme



Distribution of training kit to the participants during tribal development programme

The National Institute of Technology Hamirpur has launched a drive to motivate the tribal people of Himachal Pradesh towards technical education, so that they can become more self reliant and lead a happy and prosperous life. As a part of this programme, the members of the tribal development committee has organized five workshops in Pangi valley of District Chamba during October 13-18, 2008, for the benefit of tribal students in order to pursue technical education at NIT and other technical institutions. This programme was sponsored by the Technical Education Quality Programme (TEQIP) of the World Bank. A team of Professors and technical staff for Tribal development Programme of the NIT, comprising of Prof. Piar Chand, Prof.Lalit Awasthi, Prof. R.K. Sharma, Prof. Vinod Kapoor, Sh. Yogesh Gupta, and Sh. Surinder Singh held five workshops at Sechu, Sach, Purthi, Dharwas & Killar. Prof Piar Chand, the Coordinator has said that the main objective of these workshops (under TEQIP) is to attract the tribal students or motivate their parents to send their wards for technical education. People of Pangi valley were very enthusiastic about this programme. The average attendance was two hundred per workshop. During these workshops, TDP team informed people about the type of technical educational institutions available in the State, i.e. (From ITI's to University level technical educational institutes). both in Public and Private sector.



## Student Activity



Celebration of the 61st year of India's Independence at NIT, Hamirpur



Champion of the Inter Engineering Deemed University Football Tournament – NIT, Hamirpur



Celebration of Vanmahoshove – 2008at NIT, Hamirpur



NCC unit of NIT, Hamirpur

- National Institute of Technology, Hamirpur joined the rest of the nation in celebrating the 61<sup>st</sup> year of India's Independence, with the patriotic fervor and pageantry on 15<sup>th</sup> august. Prof. I. K. Bhat, Director of the Institute unfurled the National Flag and took the salute from NSS students. In his address Prof. I. K. Bhat conveyed all the NITians his best wishes and heartiest greetings on the occasion of the Independence Day and reminded them of the selfless service and sacrifices that the great sons of the soil had made to achieve their dream of a self reliant and prosperous India. On this occasion Prof. L. K. Awasti Dean (S&A) has also wishes to all the students of NIT for their better future in India.
- Inter Engineering Deemed University Football Tournament was organized at NIT Hamirpur on October 1-2, 2008. Total six teams from NIT Hamirpur, NIT Kurukshetra, Thapar university Patiala, S.L.I.E.T Longowal, DBCRUST Murthal, PEC Chandigarh participated in the tournament in which NIT Hamirpur emerged as champions.
- Ms. Neha, Ms. V.Sulochana, Mr. Samarth Saxena, Mr. V. Praveen Kumar, Mr. Yashwant Kumar Gangwar, M.Tech. VLSI Design, E&CED students attended Synopsys EDA Tool Training under SMDP-II at IIT Kanpur w.e.f. September 20-24 2008.
- Yogesh Kumar Chauhan and Piyush Vaidya of E&CED participated in Inter Engineering (Deemed University) Table Tennis tournament at SLIET Longowal from September 28- 29 2008.
- In the inter Engineering Deemed University Badminton Tournament organized at PEC Chandigarh, NIT Hamirpur team got third position.
- A Blood donation camp was organized on November 18, 2008, on the eve of NCC week. Ten cadets have donated the blood NCC Activity.
- E-seminars were organized by Satyam computers for the students who have been selected by the company through campus placement cell. These Virtual Seminar Session (Webinar) were open for all the students (all batches) . The topic ranged from the spirit of Object Orientation : Understanding UML, The principles of design and Struts Framework. Satyam has ensured to give such breakthroughs to the students regularly.
- Software Freedom Day (SFD), a worldwide celebration of Free and Open Source Software (FOSS), was celebrated on September 20, 2008 in the department of computer science and engineering, NIT Hamirpur. The event consisted of detailed step by step installation of Open Solaris and Fedora operating system; students were enlightened about the benefits of open source over proprietary OS. There were 50 students from different branches attended the event. In the end Open Solaris DVD was distributed to the students.



# Hill 'ffair '08



Yet another wonderful year of bliss has passed by and with it has yet another memorable Hill'ffair.

Hill'ffair, the cultural extravaganza of NITH had the usual and much more to offer to the masses this time. The festival is NITH's showcase of its varied cultures and their unison in the aim to attain excellence. And it was not just our college that held the center-stage. This year we played host to seven colleges from all over the northern region. The theme for the fest aptly was "Juvenescence: Celebrating Youth".

Hill 'ffair was the sum total of whole-hearted effort of students from 14 clubs, ranging from Dance Club and Music Club to English Club and Hindi Club, who burnt midnight oil and worked tirelessly round the clock to make Hill'ffair more iconic than it ever was. The core team was lead by Student Secretary Naveen Panta and consisted of Anish Madhav, Abhishek Abhinandan, Dheeraj Gupta, K. Ramya and Vaishally Bhardwaj as Joint Secretaries, Pankaj Garhwal as Finance Secretary and Pranjal Bajpai as Media and Publicity Secretary. ACC Works Barmana was the co-sponsor of the event, whereas "Daik Jagaran" played as Media Partner.

After months of preparation and planning, the OAT hosted three days of never ending thrill. On the first day Sh. Anurag Thakur, honorable Member of Parliament, was the Chief Guest and Sh. Abhishek Jain, Deputy Commissioner, was the Guest of Honor. The audience was treated to events like Folk Fusion, featuring folk dances from all over India, Choreography by Dramatics Club based on the theme "good vs Evil", Kavi Sammelan and Musical Night. The night was peppered with electrifying dances that kept everyone on their feet. The second day had Mrs. Urmil Thakur, honorable Member of Legislative Assembly, as the Chief Guest and Ms. Nandita Gupta, Finance Secretary, Govt. of Himachal Pradesh, as the Guest of honor. The second day too kept the momentum up and going and had the crowd on their heels with some great performances in the form of dances and plays. The trademark fashion parade 'RamPage' made everyone look up and take notice of all the models who had descended on the ramp. The Musical Night complete with heartfelt solos and dance numbers marked an apt and ceremonious end to the proceedings of day 2 of Hill'ffair.

The third and final day had Mr. Atul Khosla, Plant Head of ACC Barmana as the Chief Guest. Performances on that day included an entertaining and hilarious spoof by Dramatics Club, Dance Competitions and Adam and Eve competition. Anant Mittal was crowned Mr. Hill 'ffair while Anubhuti Mishra took the title of Miss Hill 'ffair. Just as all great things come to an end, Hill'ffair ended with the Rock Nite. The Rock Nite had the famous rock band 'MetalForce' performing to enormous response at NITH.

With all the performances completed, all the speeches delivered and the curtains set to go down on yet another magnificent Hill'ffair, everyone left the stands completely entertained, satisfied and feeling overwhelmed after having experienced what could have invariably been their one of the best Hill'ffair at NITH.

## Recognition and Awards

- **A Patnaik** received *Young Scientist Award* for the project on “Development of Short fiber Reinforced Hybrid Composites and Study of their Erosion Characteristics” from Department of Science & Technology, New Delhi. The project amount is Rs. 3,00,000/-
- **Abhinav Pradhan** student of E&CE NIT Hamirpur received Best Student Award in iSACH08, NIT Hamirpur HP. He has been selected as Best student to represent the country in ISTE Convention at Bhubaneswar in Dec 2008.
- **A.K. Chandel** acting as coordinator for the NCP project. For this Received Rs. 50000/- under NCP from AICTE, New Delhi.
- **R. K. Sharma**, Dean IRD&C, is the chief coordinator of the centre.
- **A.K. Chandel** Co-chaired three technical sessions in IEEE PES conference (POWERCON 2008) at New Delhi, October 12 - 15, 2008
- **J .N. Sharma** completed R & D Project entitled, “Studies on Wave Propagation Characteristics in Thermoelastic Materials under Coating / Fluid Loadings” funded by UGC New Delhi on 30/09/08.
- **J .N. Sharma** conducted first round of Regional Mathematical Olympiad (RMO-08) of National Board of Higher Mathematics on 14/09/08 at NIT Hamirpur (H.P.)
- **Lalit Kumar Awasthi**, chaired the Session on "Wireless Sensor Networks-1" on 13-12-2008 and on "TCP/IP" on 14/12/2008 at 16th IEEE International Conference on Networks (ICON 2008).
- **R Sehgal** supervised Ph. D. of Dr. S. Dhiman on “Assessment and Optimisation of Cutting Parameters during Machining”. Degree awarded in October, 2008.
- **S. Thakur** has been selected as a Fellow at Indian Institute of Advanced Studies at Shimla.

## International Collaboration

A meeting was held in NIT Transit Guest House, New Delhi on August 13, 2008 between Dr. Ashok Saxena, Dean, College of Engineering, Distinguished Professor and Irma and Raymond Giffels' Endowed Chair in Engineering, 4183 BELL Engineering Centre, University of Arkansas, Fayetteville, AR 72701, USA and delegation (Prof. A. S. Singha, Prof. Lalit Awasthi and Prof. Vinod Kappor) led by Prof. Sunand Kumar, Coordinator Institutional Networking (India and Abroad) to explore the possibilities of International Collaboration in various areas of interest with University of Arkansas, USA. Following areas: Application of Nano Technology, Supply Chain Management, Health Care Industries and Entrepreneurship programmes were identified for possible collaboration between UARK and NITH. However, other areas i.e. Joint research programmes / conferences/ short term courses/seminars/ student exchange/Expert lectures/ thesis evaluation is some of other areas for collaboration. Efforts are being made to get a Memorandum of Understanding signed between UARK and NITH.

## Placements: 08-09

Placement till 30<sup>th</sup> November 2008

### B. Tech. (Total No. of organizations visited = 27)

S.No.	Discipline	Total students in final year	Total students placed through Placement Cell	Percentage of placement
1.	Elect.& Comm.Engg.	53	40	75.47
2.	Comp.Sc. & Engg.	40	32	80
3.	Electrical Engg.	46	42+3*	91.30
4.	Mechanical Engg.	49	45+3*	91.84
5.	Civil Engg.	41	19+1*	46.34
<b>Total</b>		<b>229</b>	<b>178 + 7*</b>	<b>77.73</b>

\* Students have got more than one job.

### M. Tech.

S.No.	Discipline	Total students in final year	Total students placed through Placement Cell	Percentage of placement
1.	Mechanical Engg.	13	02	15.38
2.	Electrical Engg.	16	04	25
3.	E&CE (VLSI Design)	16	04	25
4.	CSE	15	02	13.33
<b>Total</b>		<b>60</b>	<b>12</b>	<b>20</b>



## Foreign Visits



Group photograph of "Global Students Forum (GSF) on Engineering Education at Cape Town South Africa"

- **Prof I K Bhat** attended the 7<sup>th</sup> Global Colloquium on Engineering Education at Cape Town South Africa from October 17 – 21, 2008. It was co located with the Second International Federation of Engineering Education Societies' (IFEES) Global Summit. Representatives from most of IFEES' 47 members met with a series of international engineering education leaders.
- Final year student, **Mr. Abhinab Pradhan** from Electronics and Communication Dept., participated at the 3<sup>rd</sup> Global Students Forum (GSF) on Engineering Education at Cape Town South Africa from October 17 - 25, 2008 which was organised by the American Society for Engineering Education and hosted by the University of Cape Town. It took place in conjunction with the 7<sup>th</sup> Global Colloquium on Engineering Education. The focal point of the weeklong schedule was the GSF itself, which had 1.5 days of debate, discussion and development of action plans which dealt with the theme of sustainability and engineering education. The GCEE's theme was "Excellence and Growth in Resource Constrained Environment: learning from each other and working together to produce quality engineering for every part of the world in the 21<sup>st</sup> century".

## Forthcoming Programmes

- Two Weeks Summer School on "Autonomous Systems" July 2009, Dr. S. K. Pradhan
- STC on "E-Communications & its Applications" under CSP, TEQIP, Dr. Rajeevan Chandel, Er. Gargi Khanna, Er. Meenakshi Sood.
- International Workshop on "VLSI Design & Test" March 2009, Dr. Rajeevan Chandel, Er. Gargi Khanna
- One Week Summer School on Optical Fibre Communication. May 2009, Prof. Vinod Kapoor, Sh. Ashok Kumar & Mr. Ashwani Kumar
- National Conference on "Optical & Wireless Techniques" July 2009, Prof. Vinod Kapoor, Mr. Ashok Kumar & Mr. Ashwani Kumar.
- Two Weeks Summer School on "Advanced VLSI Design and Optimization Techniques" June 2009, Dr. Rajeevan Chandel, Dr. Ashwani Kumar and Er. Gargi Khanna.
- One week Winter School on Recent Advances in VLSI Design and Green Electronics, Dec. 2009, Prof. Vinod Kapoor, Mr. Ashok Kumar & Mr. Ashwani Kumar.
- National Conference on "Recent Advances in Electrical Engineering (RAEE-2008)" is being organized from December 26 -27, 2008 by Continuing Education Centre, National Institute of Technology, Hamirpur (HP) coordinator Dr. Yog Raj Sood, co-coordinator Dr. R. K. Jarial.

## Alumni Association



- The Alumni Association of NIT Hamirpur has been registered under Himachal Pradesh Society Registration Act 2006 on 18th of November 2008 vide registration no. **08/2008**.
- The alumni association of NIT Hamirpur is expanding fast and has achieved another milestone with the opening up of its 7<sup>th</sup> local chapter at Bangalore on October 18, 2008. Dr. Narottam Chand, Head, Computer Science and Engineering Department and Dr. Pardeep Kumar, President, Alumni Association were present on this auspicious occasion to inaugurate the Bangalore Chapter as representatives from NIT Hamirpur. The meeting was attended by about 65 alumni. Mr. Tillesh N M (2006 Batch) serving in Flowserve Bangalore was elected as the convener and Mr. Kumar Ashutosh (2007 Batch) was elected as General Secretary of the Bangalore local chapter.

## 11<sup>th</sup> ISTE Student National Annual Convention



ISTE and NIT Hamirpur jointly hosted the 11<sup>th</sup> Annual ISTE Students Convention at the sprawling and beautiful campus of NIT Hamirpur on the 11<sup>th</sup> and 12<sup>th</sup> of October, 2008. It was named iSACH08 and faculty and students from colleges all across the country joined together in the technocultural fiesta that it was. It provided a great opportunity for participants to hone both their artistic and intellectual skills. The theme of the convention was “Skill sets development and employability of students in technical education”. This was backed by six subthemes which enabled students to prove their technical and cultural prowess. There was an overwhelming participation from colleges all across the country like Periyar Maniyammai University, Tanjore, Tamil Nadu, Nalanda Institute of Engineering and Technology, Guntur, Andhra Pradesh, A.B.I.T. Orissa, B.V.C.O.E. Pune, R.I.E.I.T., Punjab and many others.

During iSACH08 a number of technical events have been organised by the respective departments of NIT Hamirpur. Each departmental team came up with two technical events that helped students showcase their technical adroitness. The Mechanical Engineering came up with events called “How Stuff Works?” and “Mechnnovation”. The former posed dismantling and assembling problems to be faced by the participants while the latter provided a very unique platform where participants innovatively designed solutions to the problem statement. The Civil Engineering Department named their events “Hoshiwokakero” and “Defeat the Quake”. “Hoshiwokakero” participants had to design suspension bridges with the provided raw materials while “Defeat the Quake” challenged participants to provide designs that could withstand an earthquake. The Architecture Department organised events called “Pictophilia” and “Attire Matters”. “Pictophilia” was a simple designing contest which dealt with playing around with picture using Photoshop. “Attire Matters” stood out to be a very funny and creative event where participants designed fashion outfits out of materials like ropes, newspapers etc. The Computer Science and Engineering Department had events called “Quest the search” and “Take a crack”. The first one was an online treasure hunt while the latter was a techno geek’s paradise that had everything from programming to debugging. The Electrical and Electronics Engineering Department called their events “Marconimantra” and “Motor-o-Mania”. In the former participants had to generate voltages from incoming signals while the latter had participants preparing motors from clips, magnets etc. The Electronics and Communication Engineering Department organised FM Mania and Logica. Participants had to block FM Signals in FM Mania while Logica was a maze of 0s and 1s which had to be cracked by the participants.

The technical events were supported by paper presentations on the subthemes of the convention with department holding one of the six subthemes. Students took an active participation in expressing their views on the respective subthemes. To break the monotony of focussed technical events and paper presentations, a number of informal, soft skill and cultural events were organised which saw the intermingling of different perspectives at debates, the mixture of different cultures at dances and lots of fun and excitement at informal events. The events grandeur was backed up by tours and excursions for the guests and student delegates into the scenic lap of the Himalayan hill stations around Hamirpur. The event was a grand success by the active participation of guests, delegates, teachers and students from all over India. ISTE wishes to thank the sponsors for their belief and support in realising the dream of iSACH08.



## Ma Tujhe Salam



A team of disciples of Sri Sri Aushotosh ji Maharaj from Divya Jyoti Jagriti Sansthan Jalandhar visited NIT campus and presented a programme on patriotism and ethical values in Human life named Ma Tujhe Salam. The main emphasis of the programme was focused on building value system among the youth. The programme was largely attended by faculty, staff, students of NIT Hamirpur and dignitaries from local administration as well as senior citizens of Hamirpur. Swami Permanandji, Swami Chinmayanandji and Swami Amitweshanandji coordinated the programme on behalf of Divya Jyoti Jagriti Sansthan. NIT cultural clubs took the organization of the programme as a challenge and completed it successfully. Students felt the significance of such programmes in life.

## Campus Close-up



- Top floor of the Civil Engineering, Computer Science & Engineering, Electrical and Electronics Engineering and Mechanical Engineering Department building was inaugurated by Prof. I.K. Bhat, Director NIT Hamirpur on October 14, 2008. Faculty, staff & students from various departments along with engineers & staff of the Construction Cell were present on the occasion.
- The construction work of extension of library is in full swing with Ground floor nearing completion having reading halls and audio visual facilities room.
- The construction of Architecture Block is also nearing completion with additional floor being constructed with light weight materials. The faculty staff and students of architecture have shifted to new block.
- The left block of Boys hostel 6 being constructed by CPWD is complete with a capacity of 56x3.
- The lecture theatre block being constructed by CPWD is also in finishing stage. It shall be completed and handed over latest by March 2009. In all it has 23 lecture halls.

*Editorial Board, Institute Newsletter*

*Wishes all its Readers*

*A Very Happy*

*&*

*Prosperous*

*New Year 2009*

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NITH-2008