

# NEWSLETTER

Volume-7 No. 2 & 3



**December 2012**

## 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.

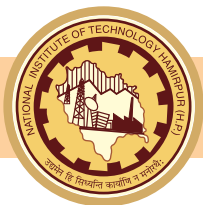
## Inside this issue....

- \* From Director's Desk
- \* Hill'ffair 2012
- \* Ceremonies & Celebrations
  - Convocation
  - Independence Day
  - Hindi Diwas
  - MOUs
  - TEQIP-2 Mentor Visit
  - Inauguration of Ambika Girls Hostel
  - Foundation Stone of Extended Block of Ambika Girls Hostel
  - National Seminar on IPR
- \* Publications in International Journals of Repute
- \* Publications in Conferences
- \* Foreign Visits & Programmes Attended
- \* Awards, Recognitions & Milestones Achieved
- \* Conferences, Workshops, STCs conducted
- \* Expert Lectures Delivered
- \* New Faculty Members in NITH Family

राष्ट्रीय प्रौद्योगिकी संस्थान, हमीरपुर (हि० प्र०)

NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P.)

[www.nith.ac.in](http://www.nith.ac.in)



## *From Director's Desk*



**Prof. Rajnish Shrivastava**

It is flabbergasting that more than one year has elapsed without feel since I joined here as head of this Institution. It is my dream to establish NIT Hamirpur as a brand of national and international reputation in the area of academics and research. The script of growth of an institution is a process of accretion where all its stakeholders; the students, faculty and staff contribute their best and remain sensitive to the needs of time. Being sensitive implies being responsible and contributing for growth of the institute.

The growth of NIT Hamirpur is discernible in all horizons; still many goals are yet to be achieved. I strive to assure that the potential of each and every person of this institute is recognized and utilized for attaining new heights. It is essential to be updated with the current methodologies adopted by our counterparts in national and international academics and research to ascertain that we do not lag behind. Recently we collaborated with few esteemed institutions with proven track record of years and this is done with an intent of doing an efficient barter of academic expertise and thoughts. Such collaborations have been very much successful in western countries and Europe and developed a unique camaraderie. I envisage that these collaborations are realized and add effectively to the growth of our institution.

Recently, NIT Hamirpur organized its annual cultural extravaganza Hill'ffair 2012 exuberantly where the students showcased their talent effectively. I congratulate them for exuding a good mix of discipline and festivity. The 'Institute Newsletter' which is now in your hands is not published merely to report about the happenings at NIT Hamirpur but to connect with the people outside the Institution and develop a meaningful relationship with outer world. In fact I aspire that in coming times it may establish new standards of scientific and social journalism.

The year 2012 is about to end but not the world and I yearn to open new channels of growth and development for ubiquitous prosperity of all in the coming year 2013. We wish to strike our chords of fruitful association with industrial giants and aspire to build a symbiotic relationship with them. I hope that in the coming New Year our Institute shall emerge with an entirely recognizable and respectable silhouette and write newer lines of academic and research contributions.

*Wish you a very happy and Prosperous New year ahead*

***Prof Rajnish Shrivastava***



## Annual cultural festival Hill'ffair 2012



**Hill'ffair 2012** was themed inferno-heat within and was celebrated from 2-4 November 2012. The 3 day long cultural extravaganza was inaugurated by Professor (Dr.) Samir Kumar Das, Director NIT Jalandhar in the gracious presence of Director NIT Hamirpur Professor Rajnish Shrivastava. The performances of well-known bands, the participation of far fledged institutes and the maverick events have added to the charm of the most awaited fest in NITH. Three days of music, rock, dance, drama and college masti come with promises of sheer fun. Hill'ffair is indeed a celebration of verve and vivacity, a sweet blend of cultures, a sprite of enthusiasm, energy and the urge to fly high. Hill'ffair 2012 also witnessed kaash - a very popular band and a kavi sammelan that won over hearts. Hill'ffair 2012 also carried forward the legacy of success. Renowned corporate houses like ACC, SJVN & others supported this event whole heartedly. Dr. Manoj Sharma Co-ordinator Hill'ffair expressed his sincere thanks to all, who contributed to the success of this event.





## Ceremonies and Celebrations



### National Institute of Technology . Hamirpur (HP)

The Fifth Convocation of NIT Hamirpur was held on 25<sup>th</sup> of May 2012. At this most pious academic ceremony Chairman Board of Governors NIT Hamirpur, Professor V.S Ramamurthy signed the scroll of degree. Professor Rajnish Shrivastava, Director NIT Hamirpur conferred the degree to all successful candidates.

Professor S.S Mantha, Chairman All India Council of Technical Education delivered convocation address to degree recipients. In this convocation 537 degree(s) were awarded, 273

candidates received degree in person and 264 in absentia. 17 candidates were awarded Doctor of Philosophy, 217 candidates were awarded Master's degree and 303 candidates were awarded bachelor's degree.

### Independence Day Celebration

The 66<sup>th</sup> Independence Day of India was celebrated with full enthusiasm and fervor of patriotism at NIT Hamirpur on 15<sup>th</sup> August 2012. At this auspicious occasion many saplings were planted throughout the campus in order to make it greener. This tree plantation drive was carried out with a strong desire that flora and fauna of this beautiful campus remains intact.



### Hindi Diwas Celebration

Hindi Saptah (Week) was celebrated at NIT Hamirpur from 7-14 September 2012. On 11<sup>th</sup> September the annual Hindi magazine "TRISHUL" was released by Director NIT Hamirpur along with other officials.



### MOUs with other NITs

NIT Hamirpur signed MOUs with three prestigious educational Institutions namely B.R. Ambedkar National Institute of Technology Jalandhar, NIT Srinagar and MNIT Jaipur on 23<sup>rd</sup> Nov., 2012. The major objective of signing MoUs is to support each other's endeavor in delivering academic programs and research activities through:

- \* Exchange of scientific and technical information.
- \* Joint supervision of PG and PhD students.
- \* Undertaking collaborative research activities through participation in national and international projects.
- \* Joint organization of events such as seminars, workshops, conferences and training programs.
- \* Training to students.

Professor Rajnish Shrivastava Director NIT Hamirpur, Professor S.K Das Director NIT Jalandhar, Professor Rajat Gupta, Director NIT Srinagar and few faculty members from MNIT Jaipur graced this occasion.



A panoramic view of Administrative Block of NIT Hamirpur





### TEQIP-II Mentor visits NIT Hamirpur

NIT Hamirpur has been selected for Technical Education Quality Improvement Programme (TEQIP) phase-II. This programme (TEQIP) was envisaged in 2003 as a long-term programme of about 10-12 year duration to be implemented in 3 phases for transformation of the Technical Education System. NIT Hamirpur has successfully completed TEQIP-I in 2009. Institute has received a sum of Rs 2.0 Crores under TEQIP-II in September, 2012. Though the selection of the institute for TEQIP-II was delayed by some time due to some technical reasons but a number of steps have been taken for successfully achieving goals and objectives of the program to make up for the lost time. Moreover Prof. Saunak Chowdhury, mentor TEQIP-II NIT Hamirpur also visited the institute on 29<sup>th</sup> - 30<sup>th</sup> November, 2012. For two days, mentor had

healthy interactions with institute administration, faculty, students and staff and provided useful inputs for successful implementation of TEQIP-II. He expressed his pleasure about the infrastructure and facilities available at NIT Hamirpur.

### Inauguration of Ambika Girls Hostel



Inauguration of newly constructed Ambika Girls Hostel was done by Ms Sarojini Ganju Thakur (Retd. IAS) and Chairperson Himachal Pradesh Private Institutions Regulatory Commission on 18<sup>th</sup> December 2012 in presence of Professor Rajnish Shrivastava, Director NIT Hamirpur. This new hostel is capable of accommodating more than 300 students.

### Foundation Stone Laid Down



Foundation Stone of extended block of Ambika Girls Hostel was laid by Ms. Sarojini Ganju Thakur (Retd. IAS) and Chairperson Himachal Pradesh Private Institutions Regulatory Commission on 18<sup>th</sup> December 2012 in presence of Professor Rajnish Shrivastava, Director NIT Hamirpur.

### National Seminar on IPR

A one day National seminar on "Intellectual Property Rights (IPR-2012)", sponsored by Deptt. of Electronics and Information Technology (DeitY), Ministry of Communication & IT, Govt. of India, New Delhi was organized by NIT Hamirpur on 25<sup>th</sup> August, 2012. Dr. A.K. Garg, Addl. Director (IPR), DeitY, inaugurated the seminar. Prof. Rajnish Shrivastava, Director, NIT Hamirpur was the Chief Guest of the valedictory ceremony. Professor Shrivastava highlighted the importance of IPR, its growth in India and imparted thorough understanding of patents, trademark, copyrights, trade secret and piracy.



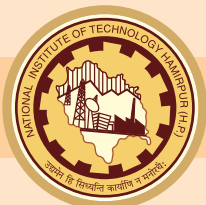




## Publications in International Journals of Repute

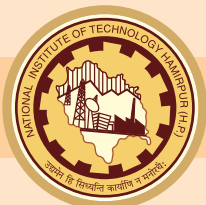
S. No	Authors	Title	Journal	Publisher
1	Vedant Singh, Somesh K. Sharma, S. Vaibhav	Modeling the Civil Aircraft Operations for the Optimization of Fuel Consumption in Indian Air Transport Industry.	Industrial Engineering Letters, 2(7) , pp. 20-29 (2012).	IISTE
2	Vedant Singh, Somesh K. Sharma, S. Vaibhav	Identification of Dimensions of the Optimization of Fuel Consumption in Air Transport Industry: A Literature Review.	Journal of Energy Technologies and Policy, 2(7), pp. 24-33 (2012).	Inderscience
3	Devender Kumar, Anshul Sharma, Somesh K. Sharma	Developing Model for Fuel Consumption Optimization in Aviation Industry.	Innovative Systems Design and Engineering 3(10), pp. 26-36, (2012).	IISTE
4	Gaurav Kumar, Dayananda, Rahul Sharma, Devender Kumar, Somesh Kr. Sharma	Synthesizing and Reviewing Research Trends in Automation.	Journal of Information Engineering and Applications 2(9), pp. 25-32 (2012).	IISTE
5	Naveen Sharma, Varun and Siddhartha	Stochastic Techniques Used for Optimization in Solar Systems: a Review.	Renewable and Sustainable Energy Reviews 16, pp.1399-1411 (2012).	Elsevier
6	Siddhartha, Naveen Sharma and Varun	A particle Swarm Optimization Algorithm for Optimization of Thermal Performance of a Smooth flat plate solar air heater.	Energy 38(1), pp.406-413 (2012).	Elsevier
7	Sanjay Yadav, Maneesh Kaushal, Varun and Siddhartha	Nusselt Number and Friction Factor Correlations for Solar Air Heater Duct having Protrusions as Roughness Elements on Absorber plate .	Experimental Thermal and Fluid Science 44, pp.34-41 (2013).	Elsevier
8	Nitin Agarwal, Anoop Kumar and Varun	Optimal Design of Hybrid PV-Diesel-Battery System for Power Generation in Moradabad District of Uttar Pradesh India.	International Journal of Ambient Energy 33(1), pp.23-34 (2012).	Taylor & Francis
9	Himanshu Nautiyal and Varun	Progress in Renewable Energy under Clean development mechanism in India.	Renewable and Sustainable Energy Reviews 16(5), pp.2913-2919 (2012).	Elsevier
10	Muneesh Sethi, Thakur NS and Varun	Heat transfer and friction characteristics of dimple-shaped roughness element arranged in angular fashion(arc) on the absorber plate of solar air heater.	Journal of Renewable and Sustainable Energy 4, pp.023112-10 (2012).	American Institute of Physics
11	Harshdeep Sharma, Varun and Anoop Kumar	Performance analysis of metallic concentric tube recuperator in parallel flow arrangement.	International Journal of Heat and Mass Transfer, 55(25-26), pp.7760-7771 (2012).	Elsevier
12	Sunil Chamoli, N.S. Thakur, J.S. Saini	A review of turbulence promoters used in solar thermal systems.	Renewable and Sustainable Energy Reviews 16, pp.3154-3175 (2012).	Elsevier
13	Prashant Dhiman, N.S. Thakur, S.R. Chauhan	Thermal and thermo-hydraulic performance of counter and parallel flow packed bed solar air heater.	Renewable Energy 46, pp. 259 - 268 (2012).	Elsevier
14	Ranchan Chauhan, N.S. Thakur	Heat transfer and friction characteristics of impinging jet solar air heater.	J. Renewable and Sustainable Energy 4, 043121 (2012).	American Institute of Physics
15	Sarbjeet Singh and Sunand Kumar	Factorial Analysis of Lifting Task to Determine the Effect of Different Parameters and Interactions .	International Journal of Manufacturing Technology Management 23(7), pp. 947-953 (2012).	Emerald
16	Nisha Gautam, A. Kaul, R. Nath, A.S Arora, and Sushil Chauhan	Multi-algorithmic Approach for ECG Based Human Recognition.	Journal of Applied Security Research 7(4) , pp. 399 – 408(2012).	Taylor & Francis





17	P. Saini, A. Kaul, and R. Nath	Comparative Analysis of QRS Impulse Detection.	Int. J. Biomedical Engineering and Technology, 9(2), pp. 177-187(2012).	Inderscience
18	Dutta R.K. Khatri V.N. and Venkataraman G	Effect of addition of treated coir fibers on the compression behavior of clay.	Jordan Journal of Civil Engineering 6(4), pp.476-488 (2012).	Jordan University of Science & Technology
19	Yasodian S. E., Dutta R.K., Mathew, L., Anima T.M. and Seena S.B	Effect of microorganism on engineering properties of cohesive soils.	Geomechanics and Engineering - An International Journal, 4(2), pp.135-150(2012).	Techno Press, KOREA
20	Vachik Dave and Kamlesh Dutta	Neural Network based Models for Software Effort Estimation: a Review.	Artificial Intelligence Review DOI:10.1007/s10462-012-9339-x, (2012).	Springer
21	Ashok Kumar, Narottam Chand and Vinod Kumar	Energy Efficient Clustering and Cluster Head Rotation Scheme for Wireless Sensor Networks .	International Journal of Advanced Computer Science and Applications 3(5), pp. 129-136 (2012)	Science & Information organization
22	Pratap Singh, T.P Sharma and Ishwar Chand	Geographically Inspired Virtual Grid for Wireless Sensor Networks.	International Journal of Computer Applications, 50(12) pp.28-33(2012).	Foundation of Computer Science
23	Atul Rao, Prashant Kumar, and Naveen Chauhan	EDGC: Efficient Dynamic Group Caching Technique for Mobile Ad hoc Networks .	International Journal of Computer Applications 41–No.13, pp. 25-30 (2012).	Foundation of Computer Science
24	S. Singh and S. Kumar	Effect of Lifting Device and Biomechanical Force Assessment During Lifting in Steel Rolling Mill.	Australian Journal of Mechanical Engineering 10(2), pp. 101-110 (2012).	Engineers Media (Australia)
25	S.R.Chauhan and Sunil Thakur	Effect of Micro Size Cenosphere Particles Reinforcement on Tribological Characteristics of Vinylester Composites under dry sliding Conditions.	J. Minerals and Material Characterization and engineering, 11, pp.938-946(2012).	Michigan Technological University
26	P.K. Sood, Rakesh Sehgal and D.K. Dwivedi	Machinability Study of Stir Cast Hypoeutectic Aluminum-Silicon Alloys During Turning .	Journal of Materials Engineering and Performance 10.1007/s11665-012-0287-z	Springer
27	Mohit Dhiman, D.K. Dwivedi, Rakesh Sehgal	Effect of iron on wear behavior of as cast and heat treated hyper-eutectic Al-18Si-4Cu-0.5Mg alloy.	Proc. of Institution of Mechanical Engineers, Part L 10.1177/1464420712463531	Sage Publications
28	Sandeep Kumar and S.R.Chauhan	Mechanical and Dry Sliding Wear Behavior of Particulate Fillers CaCO <sub>3</sub> and CaSO <sub>4</sub> Filled Vinyl ester Composites.	International Journal of Composite Materials 2(5) pp.101-114(2012).	Scientific & Academic Publishing
29	Sunil Thakur and S.R.Chauhan	Optimization of Machining Parameters for Titanium Alloy (Grade -5) Using CBN Tool Insert with Different Nose Radius Using Taguchi Technique	Trends in Mechanical Engineering and Technology, 2(2), (2012).	STM Journals
30	Ankush Vij, Sanjeev Gautam, Ravi Kumar, Amit K. Chawla, Ramesh Chandra	Blue shift in band gap and photoluminescence of pulsed laser deposited SrS:Ce/quartz thin film nanophosphors.	J. Alloys and Compounds 527, pp. 1-4 (2012).	Elsevier
31	Mayora Varshney, Aditya Sharma, K.D. Verma and Ravi Kumar	Structural and magnetic properties of Ce <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> (0 ≤ x ≤ 0.1) nanocrystalline powders.	Physica Scripta 86, 015605(2012).	IOP Science





32	Mayora Varshney, Aditya Sharma, K.D. Verma and Ravi Kumar	Swift heavy ion irradiation effect on structural and optical properties of CeO <sub>2</sub> thin films.	Nano science and Nanotechnology Letters pp. 66 - 71(2012).	American Scientific Publishers
33	Yogesh Kumar, R.J. Choudhary and Ravi Kumar	Strain controlled systematic variation of metal insulator transition in epitaxial NdNiO <sub>3</sub> thin films.	J. Appl. Phys. 112, 073718 (2012).	American Institute of Physics
34	Yogesh Kumar, R.J. Choudhary, S.K. Sharma, M. Knobel and Ravi Kumar	Strain dependent stabilization of metallic paramagnetic state in NdNiO <sub>3</sub> thin films.	Appl. Phys. Letters. 101, 132101 (2012).	American Institute of Physics
35	Abida Bashir, M. Ikram, Ravi Kumar and P.N. Lisoba-Filho	Structural, electronic structure and magnetic studies of GdFe <sub>1-x</sub> Ni <sub>x</sub> O <sub>3</sub> (x ≤ 0.5).	J. Alloys and Compounds 512, pp.183-188 (2012).	Elsevier
36	Yogesh Kumar, A.P. Singh, S.K. Sharma, R.J. Choudhary, P. Thakur, M. Knobel, N.B. Brooke and Ravi Kumar	Irradiation induced modifications in transport properties of LaNiO <sub>3</sub> thin films: An x-ray absorption study.	Appl. Phys. Letters. 101, 112103 (2012).	American Institute of Physics
37	Ar. Amanjeet Kaur, Dr. P.S. Chani	Sustainability Lessons from Pol Houses in Ahmadabad.	Research Journal of Architecture, CCA - Chandigarh, 2(2) (2012).	-----
38	Piar Chand and Yogesh Gupta	Knowledge, Belief & Attitude about HIV/AIDS among Engineering and Non-Engineering Students in Himachal Pradesh.	Indian Journal of Public Health Research and Development -An International Journal, 2(2), pp. 128-135 (2011).	Institute of Medico-Legal Publications, NOIDA
39	Vikas Thakur and Yogesh Gupta	Evaluation of Telecommunication sector in India after Liberalization.	Academicia, 2(7), pp. 53-74 (2012).	South Asian Academic Research Journals
41	Vikas Thakur and Yogesh Gupta	Evaluation of Telecommunication sector in India after Liberalization.	Academicia, 2(7), pp. 53-74 (2012).	South Asian Academic Research Journals
42	Sandeep Singh Gill, Rajeevan Chandel, and Ashwani Chandel	Netlist Bipartitioning using Particle Swarm Optimization Technique.	International Journal of Artificial Intelligence and Soft Computing 3(1), pp.1 -15 (2012).	Inderscience
43	Rohit Dhiman and Rajeevan Chandel	Sub-Threshold Delay and Power Analysis of CMOS Buffer Driven Interconnect Load for Ultra Low Power Applications.	Journal of Low Power Electronics 8(1), pp. 39-46 (2012).	American Scientific Publishers
44	Rohit Dhiman and Rajeevan Chandel	Delay Analysis of a CMOS Buffer Driven RLC Interconnect Load for Sub-Threshold Applications.	International Journal of Modeling and Simulation DOI: 10.2316/Journal. 205.2012.1.205-5586	ACTA Press
45	Rajeevan Chandel and Sumit Rao	Optimal Design of Repeaters using GA for VLSI Interconnects.	International Journal of Information and Telecommunication Technology 4(1), pp. 5-11,(2012).	SRISTE





46	Vijay Shankar, K.S. Hari Prasad, CSP Ojha, R.S, Govindraju	A Model for Non-Linear Root Water Uptake .	Journal of Irrigation and Drainage Engineering, 138(10), pp. 905-917 (2012).	ASCE
47	Vijay Shankar, CSP Ojha and K.S. Hari Prasad	Irrigation Scheduling for Maize and Indian- mustard based on Daily Crop Water Requirement in a Semi-Arid Region.	International Journal of Civil and Environment Engineering, Vol. 6, pp.300-309 (2012).	WASET
48	Suresh Kumar Walia, Hemant Kumar Vinayak, Ashok Kumar, Raman Parti	Nodal disparity in opposite trusses of a steel bridge: a case study .	Journal of Civil Structural Health Monitoring, 2(3 -4), pp.175-185 (2012).	Springer

## Publications in International & National Conferences

- ♦ Arvind K. Gathania, Naresh Dhiman and B.P. Singh, "Study of three dimensional photonic crystals using  $\text{SiO}_2$  and  $\text{TiO}_2$  –  $\text{SiO}_2$  microspheres", International conference "Seeing at the Nanoscale 2012", Bristol University, Bristol UK, 9-11 July 2012.
- ♦ Vinita Bharti & Mamta Awasthi. "Improving the combustion characteristics of pine needle charcoal briquettes", International Conference on Electronics and Communication Engineering, 20<sup>th</sup> May 2012, Bangalore, ISBN: 978-93-81693-29-2.
- ♦ Awasthi, M. and Vivek Prakash Pankaj. "Production of algal biofuels and appropriate water utilization", International Algal Summit on "Algae for Sustainable Development" 2012, New Delhi, India Jointly Organized by Indian Phycological Society, New Delhi, India and The Energy and Resources Institute (TERI), New Delhi, India.
- ♦ Pratap Singh, Anuj Yadav, T.P. Sharma, "Efficient topology management in wireless sensor networks", International Conference on Emerging Trends in Engineering and Technology, 2012.
- ♦ Urvashi Rao, T.P. Sharma, "Study on peer to peer live video streaming", Proceedings of conference on Advancements in Communication & Computing Systems, CACCS, pp. 154-157, March 24-25, 2012.
- ♦ T.P. Sharma, "Handling mobility using virtual grid in static wireless sensor networks", International conference on Computer, Electrical, and Systems Sciences, and Engineering (ICCESSE 2012), Madrid, Spain, pp. 527-537, March 28-30, 2012.
- ♦ Rajesh Kumar Sharma "Influence of segmental roughness on the performance of hydrodynamically lubricated porous bearings", Proceedings of 4<sup>th</sup> International Conference on Porous Media and its Applications in Science and Engineering (ICPM4), June 17-22, 2012 at Potsdam, Germany.
- ♦ Neelam, L.K. Awasthi, "Solutions for security in mobile agent system", International Conference on Internet Computing and Information Communications 2012, Chennai, India, 12-14 February 2012.
- ♦ S.K. Soni, Narottam Chand, D.P. Singh, "Reducing the data transmission in WSNs using time series prediction model", IEEE International Conference on Signal Processing, Computing and Control (ISPCC), 15-17, pp-1-5, March 2012.
- ♦ Ranjan Kumar Behra, "Energy consumption in cloud computing and way to balance it", International Conference on Internet Computing and Information Communications 2012, Chennai, India, 12-14 February 2012.
- ♦ Neelam, L.K. Awasthi, "Solutions for security in mobile agent system", International Conference on Internet Computing and Information Communications 2012, Chennai, India, 12-14 February 2012.
- ♦ Pratap Singh, Anuj Yadav, T.P. Sharma, "Efficient topology management in wireless sensor networks", International Conference on Emerging Trends in Engineering and Technology, 2012.
- ♦ S.K. Soni, Narottam Chand, D.P. Singh, "Reducing the data transmission in WSNs using time series prediction model", IEEE International Conference on Signal Processing, Computing and Control (ISPCC), pp.1-5 (2012).
- ♦ Tumpa Roy, Poonam Sisodia, Divye Upadhyay and Kamlesh Dutta, "Mutual authentication for wireless communication using elliptic curve digital signature based on pre-known password", Fifth International Conference on Network Security & Applications (CNSA-2012), July 13-15, 2012, Chennai, India.



- ♦ Poonam Tanwar, T. V. Prasad, Kamlesh Dutta, “Hybrid technique for effective knowledge representation”, AIAA- 2012, July, 13-15, 2012.
- ♦ Ranjan Kumar Behra, “Energy consumption in cloud computing and way to balance it”, International Conference on Internet Computing and Information Communications 2012, Chennai, India, 12-14 February 2012.
- ♦ Uttam Vijay, Lalit Kumar Awasthi, “Scope of cloud computing for multimedia application”, International Conference on Internet Computing and Information Communications 2012, Chennai, India, 12-14 February 2012.
- ♦ Varun Gupta, Durg Singh Chauhan, Kamlesh Dutta, “Impact analysis of requirement prioritization on regression testing”, 2nd World conference on Innovation and Computer Science INSODE -2012, 10-14 May, 2012, Izmir, Turkey Procedia Computer Science Journal (ISSN: 1877-0509) by ELSEVIER.
- ♦ S.R. Chauhan, Kalidas “Three body abrasive wear behavior of glass vinylester composites using response surface methodology”, Proceedings of National Conference on advances in Manufacturing Technology -2012 NITTTR Chandigarh.
- ♦ S.R. Chauhan, Sunil Kumar, Prashant Kumar, “Study on friction and dry sliding wear behavior of cenosphere filled vinylester composites-A Taguchi Method.,” “National Conference on advances in Manufacturing Technology -2012 NITTTR Chandigarh.
- ♦ A.K. Sharma, S. Kumar, R. Dogra, S. P. Lochab and Ravi Kumar, “Pure LiF nanophosphors for high exposure of gamma rays”, AIP Conf. Proc. 1447, pp.309-310 (2012).
- ♦ S. Kumar, A.K. Sharma, S. P. Lochab and Ravi Kumar, “Thermoluminescence of Eu activated LiF nanophosphors”, AIP Conf. Proc. 1447, (2012) 387-388.
- ♦ Zakir Husain, “An approach to load balancing & unity power factor control in multi-phase (Six-phase) load circuits using multi-phase DSTATCOM”, WCECS International Conference on Electronics Engineering and Applications, October 24-26, 2012, San Francisco, USA.
- ♦ M.A Khan, A. Iqbal, S.K Gupta, M.S Jamil, Zakir Husain, “Comparative analysis of pulse width modulation schemes for five phase voltage source inverter”, IEEE Students Conference on Engineering and Systems (SCES 2012), March 16-18, 2012, Allahabad, India.
- ♦ M.A Khan, S.K Moin Ahmed, Atif Iqbal, Zakir Husain, “Analysis of discontinuous space vector PWM techniques for a seven-phase voltage source inverter”, International Journal of Power Electronics and Drive System (IJPEDS) Vol. 2, No. 2, June 2012.
- ♦ Ar. Amanjeet Kaur attended a Seminar on “Chandigarh Issues & Challenges”, on 27/10/2012 at PHD House, Chandigarh, organized by PHD Chamber of Commerce and Industry.

## Foreign Visits & Programmes Attended

- ♦ Dr. T.P. Sharma, Associate Professor CSED attended Conference on Computer, Electrical, and Systems Sciences, and Engineering (ICCESSE 2012), Madrid, Spain, March 28-30, 2012.
- ♦ Dr. Rajesh Sharma, Associate Professor MED visited Germany to attend 4th International Conference on Porous Media and its Applications in Science and Engineering (ICPM4), w.e.f. June 17-22, 2012 at Potsdam, Germany.
- ♦ Gagnesh Kr. attended IPR workshop on 26<sup>th</sup> August 2012, conducted by ECED, NIT Hamirpur.
- ♦ Gagnesh Kr. visited IIT Bombay VLSI Research Lab w.e.f. 21-23 October 2012.
- ♦ Dr T.P Sharma attended National Education Day at Vigyan Bhavan, New Delhi on 18<sup>th</sup> November, 2012, chaired by President of India and HRD Minister, Dr. V. Pallam Raju, Government of India.
- ♦ Dr. V.S Dogra, Associate Professor CED attended International conference on Environmental Science and Engineering, during December 6-7, 2012 at Perth, Australia.
- ♦ Dr. V.S Dogra, Associate Professor CED attended 39<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power (NCFMFP-2012) at SVNIT, Surat during December 13-15, 2012.
- ♦ Dr. Rajesh Sharma, Asst. Prof. Physics Attended 19<sup>th</sup> international Conference on magnetism from July 8-13<sup>th</sup> 2012 at Bexco, Busan, South Korea. He presented a paper “Study of Magnetic Properties of  $\text{Nd Co}_{1-x}\text{Ni}_x\text{O}_3$  ( $x=0, 0.2, 0.4$ )”.





## Awards, Recognitions & Milestones Achieved

- ♦ Biography of Dr. Varun, Asst. Prof. MED is included in Marquis Who's Who in world.
- ♦ Biography of Dr. Siddhartha Asst. Prof. MED is included in Marquis Who's Who in world.
- ♦ Mr. Naveen Chauhan, Assistant Professor in the department of Computer science & Engineering has been awarded the degree of Doctor of Philosophy (PhD) in August 2012.
- ♦ Mr. P.K. Sood was awarded PhD on the topic "Studies on stir cast aluminium alloys" under the joint supervision of Prof. Rakesh Sehgal (NIT Hamirpur) and Dr. D.K Dwivedi (IIT Roorkee).
- ♦ Dr. Narottam Chand was invited by Samsung Electronics, South Korea to deliver technical talk to researchers and engineers, Aug 12-14, 2012.
- ♦ Dr. Narottam Chand has been appointed as reviewer to International Journal of Ad hoc and Sensor Wireless Networks.
- ♦ Professor Rakesh Sehgal has edited a book titled: "Performance Evaluation of Bearings", Published by InTech, Janeza Trdine 9, 51000 Rijeka, Croatia, ISBN 978-953-51-0786-6, Oct., 2012.
- ♦ Department of Computer Science & Engineering has been empanelled as a Consultant for IPv6 by the Department of Telecommunication. Consultant: Er. K.S. Pandey, Dr Kamlesh Dutta and Er. Siddhartha Chauhan.
- ♦ Dr. Ashwani Kumar Chandel, Associate Prof. EED NIT Hamirpur has been appointed as visiting faculty in School of Computing and Electrical Engineering at IIT Mandi HP from Aug to Nov 2012.
- ♦ Dr. (Mrs.) Rajeevan Chandel, Associate Prof. NIT Hamirpur has been appointed as visiting faculty at IIT Mandi HP from Aug to Nov 2012.

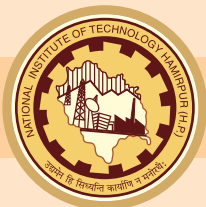
## Conferences /Workshops/ STCs Conducted:

- ♦ Department of Civil Engineering organized training program on "Disaster Management", from 22-24 May 2012 sponsored by HPSPDMA. Participants from various government and non-government organization attended in the training program.
- ♦ Dr. Hemant Kumar Vinayak organized a Workshop on "Capacity building of Masons Bar Bender and Supervisor on Earthquake safe Construction", sponsored under Disaster Risk Reduction Programme by District Kangra for programmes at Kangra Dharamshala Palampur during 26<sup>th</sup> June-3<sup>rd</sup> July 2012.
- ♦ Department of Computer Science & Engineering organized IBM DB2 workshop during 5-7 October, 2012 for the students, faculty and research scholars. The workshop was based on sets of practical session and lecture modules from IBM's Professional trainer Mr. Ravinder Kundu.
- ♦ DST INSPIRE One day workshop was conducted on Oct 18<sup>th</sup>, 2012 to motivate the young students to choose science as their career. Around 160 INSPIRE fellows, selected from various schools of Una & Hamirpur district participated in this workshop. In the morning session, students visited state of art laboratories of Centre for Material Science & Engineering.
- ♦ A one day National seminar on "Intellectual Property Rights (IPR-2012)", sponsored by Deptt. of Electronics and Information Technology (DeitY), Ministry of Communication & IT, Govt. of India, New Delhi was organized by NIT Hamirpur on 25<sup>th</sup> August, 2012.



## Expert lectures Delivered

- ♦ Dr. Kamlesh Dutta delivered an invited talk on "ICT for sustainable development" at Government Polytechnic College, Kangra, Engineers day celebration, on 15<sup>th</sup> September, 2012.
- ♦ Dr. Jitender Chhabra, NIT Kurukshetra delivered an expert talk on "Programming paradigms and Computational Models: how to prepare for competitive exams" to the students of CSE Department, on 13<sup>th</sup> August, 2012.
- ♦ Dr. Narottam Chand delivered expert talk on "Wireless and Mobile Technologies" in National Seminar on Wireless Communication & Networks, SMVDU Jammu, March 24-25, 2012.
- ♦ Dr. J. Ram Kumar, Associate Professor MED at I.I.T Kanpur delivered on expert lecture on the topic "Advance Machining Processes (Micromachining)" on 3<sup>rd</sup> August 2012 at N.I.T. Hamirpur.



- ♦ Professor Rakesh Sehgal delivered “How to Teach Engineering Mechanics”, series of expert lectures during FDP on Engineering Mechanics, at LPU, Jalandhar (Pb.) from July 16-20, 2012.
- ♦ Expert talk on “Intellectual Property Rights (IPR)”, was delivered by Mr. Raju Narayan Swami IAS on 5<sup>th</sup> Nov., 2012 at NIT Hamirpur.
- ♦ Prof. Minakshi Jain delivered an expert lecture in a National Conference on the theme “The Place of Nature in tomorrow's City”, organised by Indian Society of Landscape Architects on the topic “Journey of a hill town – Case study capital city Shimla” on August 31<sup>st</sup>, 2012 at Hotel Noor-Us Sabah Bhopal.
- ♦ Prof. Minakshi Jain delivered an expert lecture in a Seminar on “Chandigarh - Issues & Challenges”, on October 27<sup>th</sup> 2012 at Ph. D Chamber of Commerce and Industry, Ph.D House Chandigarh on the topic “Landscape Planning issues in Chandigarh”.
- ♦ Prof. Ravi Kumar delivered a lecture on “Innovation in Material Science in 20<sup>th</sup> and 21<sup>st</sup> Century”, in the Vivekanand Hall on Oct 18<sup>th</sup>, 2012 to motivate the young students to choose science as their career in DST INSPIRE One Day Workshop at NIT Hamirpur.
- ♦ Prof. Ravi Kumar delivered a plenary lecture entitled “Investigations of room temperature ferromagnetism in MoO<sub>2</sub> and TiO<sub>2</sub> thin films”, at NIT Srinagar during National Conference on Recent Trends in Material Science Research (RTMSR-2012) from Sept. 3 – 5, 2012.
- ♦ Prof. Amba D Bhatt from MNNIT Allahabad delivered an expert lecture on “Research Direction in CAD”, in Department of Mechanical Engineering at NIT Hamirpur.
- ♦ Dr. Hemant Kr. Vinayak delivered an expert lecture on “Development of State Specific guideline for Earthquake Safe construction”, “Critical Aspects of RVS format for RCC building”, “Retrofitting of schools buildings in Himachal Pradesh- Case studies”, at a training program on Seismic Safety Assessment of Buildings in Delhi by Rapid Visual Screening (RVS) at National Institute of Disaster Management, New Delhi on 19<sup>th</sup> Oct 2012
- ♦ Dr. Hemant Kr. Vinayak delivered an expert lecture on “Linking school safety with whole school concept, Linkage to RTE, HVRC analysis in schools-Tools and Techniques, Structural and Non-structural safety issues in schools”, Training of Trainers for National School Safety Programme HIPA, Shimla on 13<sup>th</sup> December 2012.

## NEW FACULTY MEMBERS IN NITH FAMILY

**Dr. Suket Kumar** joined Department of Mathematics in May 2012.

**Dr. Khatri Vishwas Nandkishore** joined Dept. of Civil Engg. in May 2012.

**Dr. Ankit Gupta** joined Department of Civil Engineering in June 2012.

**Dr. K Nallasivam** joined Department of Civil Engineering in July 2012.

**Dr. Kalyan Sunder Ghosh** joined Department of Chemistry in May 2012.



TREE PLANTATION DRIVE(15 Aug. 2012)



## EDITORIAL BOARD :

- Chairman : **Prof. Rajnish Shrivastava**  
Director, NIT Hamirpur
- Editor : **Dr. Siddhartha**
- Members : Prof. Rakesh Sehgal  
: Prof. Vinod Kapoor  
: Dr. Rajeevan Chandel

**NATIONAL INSTITUTE OF TECHNOLOGY  
HAMIRPUR (H.P.)-177 005**

Phone : 01972-222308, 254010, Fax : 01972-223834  
E-mail : director@nith.ac.in