

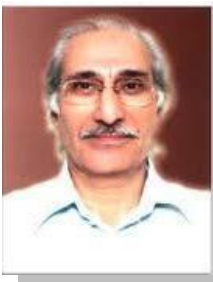
Hilly Ramblings



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From the VC's Desk



The Vice-Chancellor's Convocation Address during the 5th Convocation of JUIT.

It is my proud privilege to welcome Her Excellency Smt. Urmila Singh, The Governor of Himachal Pradesh & Chancellor of JUIT to this solemn function on the occasion of the 5th Convocation of this University. We are honored and grateful to you madam for sparing your valuable time out of an extremely busy schedule and for taking the trouble of accepting our invitation to Inaugurate this Convocation and blessing the Graduating students.

We are beholden to the Honorable Shri Virbhadra Singh, The Chief Minister of Himachal Pradesh and our Chief Guest of the day for the 5th Convocation of JUIT and heartily welcome you to this auspicious function. We remain ever grateful to you Sir, for having very kindly acceded to our invitation and having graced this campus by your august presence. We are sure Sir, your presence itself will motivate and enthuse our graduates; thank you sir for sparing your precious time and for blessing us.

Our Guest of Honor Mr. Sajjan Jindal, CMD of Jindal Steel Works is a dynamic industrialist leading the most progressive and growing Industry Group and it is a matter of great pleasure for us to welcome him to this function and we thank you sir for having agreed to grace this convocation and sparing your valuable time to bless our graduating students. We thank you Sir, for your gracious presence.

Our profuse welcome to the Honorable Minister, Shree Dhaniram Shandil Ji, Minister of Social Justice; for sparing his valuable time and accepting our invitation to be with us on this 5th Convocation. We are grateful to you sir, for showering your words of wisdom on all the students on this auspicious occasion.

My words fail me to express my Gratitude to our Visionary Founder Chairman of JSS, Honorable Shree Jaiprakash Gaur Ji. All of us who are here today, are here only because a decade and half back he conceived, and created this oasis of knowledge on the slopes of these Dhaulta Dhar Range Himachal mountains, and so how can I welcome him to his own creation. I can only bow my head to his great determination and to his philanthropy due to which hundreds, many thousands have and will in future realize their dreams of becoming engineers and technologists. His commitment to education spans beyond this campus and his *Midas touch* has blessed thousands of students who are getting educated from schools, colleges, ITIs, and Universities, in all some 25 thousand students are getting the light of knowledge through the institutions established by JSS under Honorable Jaiprakash Gaur Ji's mentorship. Sir, we cherish your presence; we revere your lofty ideals, as they motivate us to try to walk on the paths enumerated by you, thank you Sir, for taking time out for blessing us.

Our Honorable Pro-Chancellor Shri Manoj Gaur Ji, has always been a source of guidance and wise council for us, we know that it is very difficult for him to even spare few minutes, but whenever we have requested him for time to discuss about various issues troubling us he has been magnanimous with his time and very considerate to help us out. We welcome you Sir and thank you for your valuable time and are obliged by your presence.

I am personally indebted to every member of the Governing Council for guiding and advising us and also for giving us the benefit of their time, wisdom and experience to make JUIT an excellent institution. Our distinguished guests Shri S. S. Mittal Ji, Sr. Advocate Supreme Court of India, Shri P. C. Dhiman, IAS, Sec Education; Smt. Upma Chawdhry, IAS, Sec. IT; Shri Sanjay Gupta, IAS, Sec. Technical Education, Shri Sunil Sharma Ji, Prof. S. C. Saxena, Vice Chancellor, JIIT, Noida; who have graced us as honorable members of our Governing Council are the guiding light of this University and I am indebted to them for accepting our invitation and for making this function a success.

This is the day of the Graduands and I welcome them to their Alma- mater and hope their home coming will be a revisit to their days of your and a travel down the memory lane. Thank you all for taking the time off and

participating in this auspicious function, which is for you and due to your success. I congratulate every graduating student and especially those who are going to receive the Chancellors or Vice- Chancellors Medal for the exceptional academic performance in their respective academic programs. I am sure that all of our Graduands will continue to be at the top in every walk of life that they care to tread.

My special welcome is reserved for the parents of graduating students and our other honored guests, whose presence has added both color and vibrancy to this function.

Sir, as the current Vice Chancellor of JUIT it is my pleasant duty to present the Progress report of the university in general and in particular for the past one year. I may however, mention that I have been here only for the past six months and the credit for most of these achievements that follow goes to my predecessor Dr. Y. Medury who has provided exceptional guidance, leadership and motivation to this University during his long association as COO of JP Group's Education Initiative and also as Vice Chancellor of JUIT.

Every University is known by the quality of its Faculty and the brilliance of it's students, measured through their academic output in terms of Research publications, R&D projects handled, patents and technology transfer output and technical knowhow generated & contributed. During the period of this report JUIT Faculty has published more than thousand papers out of which 631 papers are in International Refereed Journals; with 863 SCOPUS citation index; along with these papers 15 Books and 8 Invited Book Chapters have been published by them by the leading publishers of the world. The Faculty has been awarded 43 R&D Projects by the premier National funding agencies like DBT, DST, ICMR, CSIR, DRDO and others, with a total funding of more than 13 Crores, out of these 11 projects have been completed successfully and 32 are running at present. 16 patents have been filed by the Faculty one of which has been awarded, 7 have been published and the rest are under processes. Many new projects are being submitted to enrich the National Science & technology effort and for contributing leading edge research findings to augment the Global knowledge pool.

JUIT is a unique institution having focus on research, knowledge generation & knowledge transfer; to achieve these objectives it has evolved series of innovative and state-of-the-art pedagogical methods and created new teaching-learning processes that are essential for turning out engineers, scientists & technologists fit for the twenty first century. The Academic infrastructure of JUIT is one

of the best in the country. With more than 56 state-of-the-art Labs, 900 computers, 1GB plus Internet BW and Wi-Fi access in the Academic block & Hostels. Every Classroom is a smart classroom, Digital Library provides students access to e-journals, e-books and content developed globally as well as locally 24x7. An open, transparent and web based information system caters to every intellectual quest of every member of JUIT family.

The research collaborations with International Institutions are spread over US, Germany, Korea, Singapore & Russia with the worlds' top ranking universities like UC Berkley, CMU, Stanford University, UF, UNO in US, besides many in Europe and South East Asia.

The student & faculty exchange program is continuing with three universities and more than 45 students and 7 faculty members from JUIT have spent a semester in US while 3 students from the US universities and one from Russia have come to JUIT for spending a semester with us.

To create a vibrant research environment the University has more than 150 students pursuing research and 180 students have been enrolled for M. Tech & M. Pharm Degree. The university spends about 1.5 Crore Rs annually on Fellowships and Scholarships on these scholars to strengthen our research effort. This must be the only private university in the country with such a huge commitment for Research.

JUIT Biotech department has been consistently Ranked as No 1, among the top Biotech departments in India along with JNU for the years 2011, 2012 & 2013.

Keeping all these factors into focus the EDU-RAND Rankings of Top 225 Engineering Colleges of India has ranked JUIT at the 40th rank during the 2013-14 rankings as published in EDUTECH Magazine. (May-June 2014 issue page 49)

JUIT has been Accredited by both NBA (2009, 2014) and NAAC (2011) and we had a repeat visit of the NBA team during 29th Oct. 2014 till 2nd Nov. 2014, the visiting experts had the following observations:

- The university has excellent and well maintained infrastructure.
- The university provides very good academic environment to students.
- The University has a good ambience,

- The number of faculty holding PhD degree has increased in comparison with previous NBA accreditation.
- The faculty has kept abreast of advances in knowledge.
- Good number of international collaborations exist and are flourishing.
- The management has positive attitude towards research funding.
- Students have excellent potential and they should be challenged even more.
- Collaboration among these five departments/ fields should be encouraged.
- The experts were unanimous about the high quality of Infrastructure, excellent Faculty & Students.

The University encourages its students to practice & apply what they learn in the classroom and also to bring the problems from the field to be analyzed and discussed in the class. We blend the classroom teaching with the global knowledge resources and also challenge our students to participate in contests that test their technological prowess while competing with the best in the world, and I am happy to report that our students have been doing very well in these contests earning accolades for themselves and the University. We are proud of our student's achievements as they are giving their best at every fora, inside the university and outside. In recognition of the capability, competence & talent of our students JUIT has been consistently for past five years always having more employment offers from best companies than the number of eligible students, and even this year, though the placement activity started in August, already 248 out of 339 eligible & desirous students have been placed in top Indian & Multi National companies with annual pay package ranging from 3.5 lacs to 15 lacs.

Let me also share with you the distinction that our students have earned for themselves in sports, debates and technical competitions while participating in individual or team events. Our 62 strong sports team participated in 7 events in the sports fest of IIT Mandi and the Men's Basketball team was the winner of the tournament. I congratulate all the individual winners and the winning teams who have won prizes in various events. The number of co-curricular, extra-curricular and cultural activities that are carried out by our students under the banner of JYC and its clubs are mind boggling. Their

creativity, artistic and aesthetic exhibits, short and sharp films, multimedia shows put up by them always surprise us. Many visitors, who have had the chance of seeing their dance items, musical performances and drama & skit shows, were spell bound by the quality of choreography, acting acumen in plays & acts.

No university can ask for more when it has such an abundant pool of talented, dedicated, motivated and brilliant students as JUIT has and knowing them one can feel that the future of India is safe in their hands. Whatever we achieve and whatever laurels we may amass, it shall be because of you, my dear students and together we shall make this temple of knowledge shine the brightest in the galaxy of Institutions in India & the world.

This 5th convocation is being held after a gap of 4 years and thus we shall be awarding various Degrees for the graduating batches of 2011, 2012, 2013 and 2014; culminating in the award of 1547 B. Tech, 41 B. Pharm, 162 M. Tech. 40 M. Pharm, 91 Dual Degrees and 47

Ph.D's in this function. Four students have earned the Chancellors Gold medal for standing First in their Batch, 30 graduates will be presented Vice Chancellors Medals for obtaining the highest Grades in their respective Branch of UG Program while 12 scholars will be awarded the Vice Chancellors Medal for standing First in the respective Branch & Batch of the PG Program.

In the end let me once again welcome you all to this function and congratulate all the graduands and wish them a bright and successful career. We look forward to your continuing association with this university so as to bring new ideas, new techniques and new vigor into this university's activities.

5th Convocation of JUIT



Degree Recipients of the 5th Convocation of Jaypee University of Information Technology held on 24th November 2014

The 5th Convocation of JUIT took place on November 2014. The Chancellor of the University and Governor of

Himachal Pradesh Her Excellency Smt Urmila Singh, Chief Minister Shri Virbhadra Singh, The Found

Chairman of Jaypee Group Shri Jaiprakash Gaur and the Executive Chairman Shri Manoj Gaur Ji and the members of Governing Council and Academic Council were present during the occasion. Shri Sajjan Jindal, the Special Guest of Honor was present during the event.

A total of 1928 degrees were awarded to those who present and in absentia.

Chancellor's Gold Medal

The Chancellor Gold Medal for getting highest ranks amongst all branches awarded to

- 2011 **Ms. Swati Sharma** (Computer Science & Engineering)
- 2012 **Mr. Prateek Dhaka** (Electronics and Communication Engineering)
- 2013 **Ms. Vasundhra Anand** (Electronics and Communication Engineering)
- 2014 **Ms. Ambika Sharma** (Electronics and Communication Engineering)

Best Paper Award

Dr. S.K. Jain was given the 2013 Best Paper Award by the Indian Society of Rock Mechanics (ISRMTT) at the 5th Indian Rock Conference held in New Delhi during 12-14 November 2014. A total of 9 such awards were given by the society for the year 2013. The awards were conferred by Sri A.B. Pandya, Chairman, Central Water Commission. New Delhi



Eminent Scientist Prof. Yashpal awarded best paper presentation award to **Dr. Sudhir Kumar** at 1st Himachal Pradesh Science Congress, Hotel Peterhoff, Shimla, October 15-16, 2014. He presented the paper entitled "Development of sustainable bioleaching technology for recovery of precious metals (Au, Ag and Pt.) from e-waste and biodegradation of polybrominated aromatic fire retardants."



Dr. Rishi Mahajan working under Indo-Russia project was awarded for Best Paper Award for his paper at 1st Himachal Pradesh Science Congress on held at Shimla

Awards and Honors

PhD of the Month

Ms. Mamta has successfully defended her PhD Viva-Voce in Biotechnology at Department of Biotechnology and Bioinformatics. She was working on her title "*Production, purification, characterization of bacterial lipase and its exploitation in detergent industry*" under supervision of Dr. Garlapati Vijay Kumar.



Mr. Abhishek Kandwal has successfully defended his PhD Research work at Department of Physics and Material Science under supervision of **Prof. S.K. Khah**. He was working on his research topic "**Design of Gap Coupled Sectoral Antennas for Communication Systems**".

October 15-16, 2014. He has presented his work on "Development of Sustainable Bio-based Technology for Management of Lignocellulosic Waste in Himachal Pradesh using Chir Pine Needle"

Publications

Journal Publications

Arun Chauhan, Devesh Chauhan, Chittaranjan Rout (2014). Role of Gist and PHOG Features in Computer-Aided Diagnosis of Tuberculosis without Segmentation. *PLoS One*, 9 (11), e112980.

Ganguly, R., Bansal, A., Mishra, M., Kumar, A. (2014). Application of Rainwater Harvesting Scheme in Shimla Region. *Hydrology Current Research*, 5(3), pp. 180.

Ganguly, R., Gupta, A.K., Mishra, M. (2014). Traffic Volume and Accident Studies on NH-22 between Solan and Shimla, India. *European Scientific Journal*, 2, pp. 248-254.

Gupta, D., Dutta, D. Kumar, M. Barman, P. B., Sarkar, C. K., Basu, S., and Hazra, S. K. (2014). A low temperature hydrogen sensor based on palladium nanoparticles. *Sensors and Actuators B: Chemical*, 196, pp. 215-222

Kalia, S. Kango, S., Kumar, A. Haldorai, Y. Kumari, B. and Kumar, Rajesh (2014). Magnetic polymer nanocomposites for environmental and biomedical applications. *Colloid Polymer Science*, 292(9), pp. 2025–2052.

Pradhan, J.K. and Kumar, S. (2014). Informal e-waste recycling: environmental risk assessment of heavy metal contamination in Mandoli industrial area, Delhi, India. *Environmental Science and Pollution Research*, 21(13), pp. 7913-7928.

Ram, S. and N Laxman (2014). Metadata Description Framework for Integration of Bioinformatics Information Resources: A Case of iBIRA. *DESIDOC Journal of Library and Information Technology*, 34 (5), 384-392.

Sehgal, M. and Singh, T.R. (2014). DR-GAS: A database of functional genetic variants and their phosphorylation states in human DNA repair systems. *DNA Repair*, 16, pp. 97–103.

Sehgal, M. and Singh, T.R. (2014). Systems biology approach for mutational and site-specific structural investigation of DNA repair genes for xeroderma pigmentosum. *Gene*, 543, pp. 108–117.

Jain, T., Saini, D.S. and Bhooshan, S.V. (2014). Cluster Head Selection in a Homogeneous Wireless Sensor Network Ensuring Full Connectivity with Minimum Isolated Nodes. *Journal of Sensors*, 2014(2014), Article ID 724219.

Conference Publications

Shivani Sood, Poonam, Jitendraa Vashistt, Rahul Shrivastava (2014). 'Reporter based two-pronged strategy: target validation and rapid drug screening against persistent mycobacteria'. Proceedings of International Symposium on 'Cellular Response to Drugs' and XXXVIII All India Cell Biology Conference. [Lucknow: 10-12 Dec. 2014].

Sharma D, Goel G, Sharma BM and Chauhan RS. 2014. Exploring white rot fungi isolated from North-Western Himalayas for lignocellulolytic enzyme activities. International Conference on Emerging Trends in Biotechnology, Nov 4-6, 2014, JNU, New Delhi

Singh, N, Raghav M., Goel G. 2014. Phenotypic and genotypic characterization of environmental and food isolates of Cronobacter spp. other than infant formula. International Conference on Emerging Trends in Biotechnology, Nov4-6, 2014, JNU, New Delhi.

Attri S, Singh N, Goel G. 2014. Tools for understanding and deciphering the functionality of the human gastrointestinal microbiota. International Conference on Emerging Trends in Biotechnology, Nov4-6, 2014, JNU, New Delhi.

Sharma V, Mahajan R , Goel G. 2014. Culture Independent Molecular Approaches to Study Microbial Diversity of Starter Cultures of Traditional Fermented Beverages in Himachal Pradesh. National Conference on " Current trends in plant sciences with special reference to phycology and Mycology, Oct 28-29, 2014.

Manika Sehgal, and Tiratha Raj Singh, Bioinformatics applications to resolve the mystery of diseases associated with Human DNA repair system, in 35th Annual Conference of Indian Association of Biomedical Scientists, held at CSK HP Agricultural University, Palampur during Nov., 14-16, 2014.

Anil Kumar, Mansi Sharda, Prince Dhammi, Harvinder Singh Saini, Sudhir Kumar: Development of sustainable bioleaching technology for recovery of precious metals (Au, Ag and Pt.) from e-waste and biodegradation of polybrominated aromatic fire retardants, [First Himachal Pradesh Science Congress, Hotel Peterhoff, Shimla, October 15-16, 2014] – Best paper presentation award.

Mehak Pandita, Shalini Kanwar, Sudhir Kumar: Bioremediation by Acinetobacter species for bioremediation of contaminated soil ecosystems. In a

Community Service

On request of Burmana Panchyat of Bilaspur District, Himachal Pradesh under Nirmal Bharat Abhiyan, Dr. Sudhir Kumar and Dr. Ashish Kumar fabricated a biogas plant at Govt. Senior Secondary School, Burmana, Bilaspur on 26th December 2014.

national conference on current trends in plant sciences with special reference to phycology and mycology, Panjab University, Chandigarh. [October 28-29, 2014]

Prince Dhammi, Manoj Kumar, Sunil Biala, Sudhir Kumar, Sanehdeep Kaur and Harvinder Singh Saini: Biological treatment of polybrominated organic pollutants present in E-waste. In AMI 55th annual conference on empowering mankind with microbial technologies, Tamilnadu Agricultural University, Coimbatore, TN [November 12-14, 2014]

Abhilash Kumar Tripathi, Mamta Kumari, Sudhir Kumar: Performance of a compact biogas digester in Himachal Pradesh. In a conference on Decentralized biogas digesters and their slurry management, Goa [November 20-21, 2014].

Smriti Mishra, Mohd Imran Shah, Malay Sarkar, Arun Chauhan, Sanjiv Sharma, Chittaranjan Rout (2014). Integration of medical data for affordable healthcare. Proceedings of the International Conference on Data Sharing and Integration for Global Sustainability [New Delhi, India : 2-5 November, 2014]

Atiya Fatima, Deepak Mishra, Chittaranjan Rout and Ram Singh; Synthesis and Characterization Of Isoflavone based Molecule as Antiestrogens; Indian Roadshow Workshop - 4 November, 2014 organized by Royal Society of Chemistry at IIT Delhi.

Meenakshi Sood, Sunil V. Bhooshan, “Modular Based Dynamic Analysis of EEG Signals Using Non-Linear Feature” IEEE 3rd International Conference on Parallel, Distributed and Grid Computing 11-13 Dec 2014, JUIT waknaghat Solan, pp 47.

Dr. Amit Srivastava (Asst. Professor, HSS) presented a paper on "Determinants of India's Intra-Industry Trade: A Panel VAR/VECM Approach", in the International Conference "4th IIFT Conference on Empirical Issues in International Trade and Finance" organised by IIFT New Delhi, during December 18-19, 2014.

C. Kumar, A. Usmani, A. Nanda and S.K. Jain, “Back Analysis of Measured Displacements in Large Cavern”, Proc. 5th Indian Rock Conf., 12-14 Nov 2014 New Delhi

Rajiv Ganguly, Veeresh Gali, Aman Thakur, Shubham Chopra, “EIA of Hydropower Project in Himachal Pradesh: An Analysis”, 19th Conf. on Hydraulics, Water Resources, Environ. and Coastal Eng. (HYDRO 2014), 18-20 Dec 2014, MANIT, Bhopal.

Rajiv Ganguly, Anil Dhiman, Ashok Kumar Gupta, “Construction and Design principles for Energy-efficient Buildings in Hilly Regions in Northern India”, Int. Conf. on Sustainable Civil Infrastructure (ICSCI 2014), 17-18 Oct 2014, HITEX Exhibition Centre, Hitech City, Hyderabad., p. 970-979.

Rishi Rana, Rajiv Ganguly, Ashok Kumar Gupta, “Solid Waste Management in Chandigarh – A case study”, 5th Int. Conf. on Arch., Civil and Environ. Eng. (ACEE 2014), 11-12 Oct 2014, JNU New Delhi, p. 67-70.

Invited Talk and Resource Person

Invited Talks:

Dr. Rahul Shrivastava delivered an invited talk on ‘Safety in Laboratory: Dealing with Biologicals’ at First National Seminars on Lab Safety in Chemistry organized by MM University Mullana, Haryana on November 12, 2014.

Dr. Tiratha Raj Singh delivered an invited talk in 35th Annual Conference of Indian Association of Biomedical Scientists, held at CSK HP Agricultural University, Palampur during Nov., 14-16, 2014.

Resource Person:

Dr. Sudhir Kumar was invited as a resource person and delivered a talk on “Standards Level the Playing Field - Solid waste trade” On the Occasion of Worlds Standards Day Celebrations, 14 October, 2014 organized by Bureau of Indian Standards (BIS), Parwanoo, HP.

Dr. Sudhir Kumar delivered a talk on “Biogas and bio-briquettes from solid waste: Cost effective Models” in a National workshop on renewable energy, 22 November, 2014 organized by Jawaharlal Nehru Government Engineering College, Sundernagar, Mandi, HP.

Dr. Sudhir Kumar gave a presentation on “Biogas production from solid waste” in an Indo-US workshop on “Anaerobic Microbial Processes for Energy and

Environment” 22 December, 2014 at Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab.

Dr. Sudhir Kumar gave a presentation on “Bioremediation of e-waste” in an Indo-US workshop on “Anaerobic Microbial Processes for Energy and Environment” 23 December, 2014 at Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab.



Delegates of One Week Workshop on “Combinatorics and Graph Theory in Science and Engineering”

Workshop Organized

Department of Mathematics has organized one week workshop on **Workshop on Combinatorics and Graph Theory in Science and Engineering** during on November 3-8, 2014. The objective of the workshop was to introduce the participant with the intricacies of Combinatorics and Graph Theory in Science and Technology. There were 52 registrations in the workshop including faculty members, research scholars, M Tech and B Tech students from all over India.

The workshop was conducted by our guest speaker **Dr. Ashish Srivastava**, Department of Mathematics & Computer Science, Saint Louis University; Saint Louis, MO, USA. His research interests include combinatorics, graph theory, non-commutative algebra and applied algebra.

The aim of the workshop was to familiarize the participants with the basic tools of combinatorics and graph theory, like Pigeonhole Principle, Generating Functions, Polya's Theory of Counting, Graphs, Trees, Euler Path and Cycle, Hamiltonian Path and Cycle, Planarity, Graph Decomposition. Specific topics in Coloring, Matching, Ramsey Theory and algorithmic aspects of graph theory were introduced along with various applications.

Appointment as Member of Editorial Board

Dr. Jitendra Virmani has been appointed as an Editorial Board Member of the following International Journals:

* *International Journal of Intelligent Engineering Informatics* published by Inderscience Publishers.

<http://www.inderscience.com/jhome.php?jcode=ijim>

* *International Journal of Image Mining* published by Inderscience Publishers.

<http://www.inderscience.com/jhome.php?jcode=ijiei>

Hilly Ramblings

Quarterly Newsletter of JUIT

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Comments and Feedback are invited at: hillyramblings@juit.ac.in