



HILLY RAMBLINGS

JUIT's Quarterly Newsletter



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About the Newsletter

Welcome to the first issue of "HILLY RAMBLINGS", the quarterly newsletter of Jaypee University of Information Technology, Wagnaghat. The purpose of the newsletter is to disseminate the information regarding various dimensions of JUIT like academic, research or socio-cultural activities. We invite you to send your achievements/comments/suggestions and your ideas to us so as to build a vibrant and effective community together.

The Vice Chancellor

Dr. Ravi Prakash has joined as the Vice Chancellor of the university on July 19, 2010. Prior to joining JUIT, he was Dean, Faculty Division II and Dean Research and Consultancy Division at BITS Pilani, Rajasthan. He has more than 37 years of teaching and research experience. He guided eight PhDs and produced several research papers in journal of international repute. He did his Ph.D. (Materials) from Cranfield University, U.K. and post-doctoral research in University of Bath, U.K.

Publications

Between July to September, 2010, the total number of research papers published by various departments, in different journals of repute is 21. The details are listed below:

- Priyadarshini, S.K. Singh, C. Tandon, "Studies on matrix protein(s) from human calcium oxalate monohydrate (COM) stones", International Journal of Urology 2010, 17, Suppl 1: A210.
- Kanupriya Aggarwal, Priyadarshini, S.K. Singh, C.Tandon, "Evaluation of the activity of human renal stone extract on nucleation and growth of calcium oxalate crystals", International Journal of Urology 2010, 17, Suppl 1: A131-A132.
- A. Aggarwal, S.K. Singla, Priyadarshini, C. Tandon, "In vitro studies on anticalcifying potency of Tribulus terrestris", International Journal of Urology 2010, 17, Suppl 1: A211-A212.
- A. Aggarwal, S. Tandon, S.K. Singla, C. Tandon, "Reduction of oxalate-induced renal tubular epithelial (NRK-52E) cell injury and inhibition of calcium oxalate crystallisation in vitro by aqueous extract of *Achyranthes aspera*", International Journal of Green Pharm [serial online] 2010 [cited 2010Sep12];4:159-64. <http://www.greenpharmacy.info/text.asp?2010/4/3/159/69173>
- A. Aggarwal, S. Tandon, S.K. Singla, C. Tandon, "Diminution of oxalate induced renal tubular epithelial cell injury and inhibition of calcium oxalate crystallization in vitro by aqueous extract of Tribulus terrestris", International Brazilian Journal of Urology, 2010, 36, 480-489.
- R.S. Chauhan, N. Gupta, S. Sharma, J.C. Rana, T.R. Sharma, S. Jana, "Genetic & Genome Resources in Buckwheat: Present status & future perspectives", European J. Plant Sci. Biotech. 2010, 4, 33-44.
- M. Kumari, S. Kumar, K. Ravikanth, R.S. Chauhan, "Pretreatment and saccharification of steam exploded waste of a pharma industry", Int. J. Pharma & Bio 2010 Sciences, 1, 1-7.
- Hemant Sood, R.S. Chauhan, "Optimization of Cell Culture Parameters for Increased Shoot Biomass and its Enrichment for a Medicinal Compound, Picroside-1 in an Endangered Herb, *Picrorhiza kurroa* Royle ex Benth", ISCA YOUNG SCIENTIST AWARD PROGRAMME Chennai, Aug 24, 2010.
- Manu Sharma, A. Rakhi, N. Dalal, N. Sharma, Design, synthesis and evaluation of Lantadene A congener with hydroxyl functionality in ring A as antitumor agents, Natural Product Research, 1-10, I First, 2010.
- S.K. Jain, Atul Nanda, "Numerical Modelling of Field Pressuremeter Tests," International Journal of Earth Sciences and Engineering, 3(3), 425-433, 2010.
- P. Chaudhuri, J. Elcock, "Scheduling DAG-based applications in multicluster environments with background

Editorial Board:

- Tejinderbir Singh Lamba
- Chandrdeep Tandon
- Sunil Kumar Khah
- Subodh Kumar Jain
- Davinder Singh Saini
- Rakesh Kumar Bajaj
- Shipra Sharma
- Amit Srivastava

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There were 7 conference presentations outside India and 3 in India.

- workload using task duplication”, International Journal of Computer Mathematics, Vol. 87, No. 11, September 2010, 2387–2397.
- Davinder S Saini, Neeru Sharma, “Ovsf Code Assignment Schemes At The Forward Link Of Wcdma Systems”, Actapress International Journal of Computers and Applications, Vol. 32, Issue 3, July 2010, pp. 253-260.
 - Chattopadhyay, S. Gupta, Pato Kumari, V.K. Sharma, “Propagation of torsional waves in an inhomogeneous layer over an inhomogeneous half-space”, Meccanica, SpringerLink DOI: 10.1007/s11012-010-9329-5, Online First™, 3 August 2010.
 - D.S. Hooda, Rakesh K Bajaj, “Useful Fuzzy Measures of Information, Integrated Ambiguity and Directed Divergence”, Inter. Journal of General Systems, Volume 39(6), August 2010, 647 - 658.
 - R. S. Bisht, R. Kumar, N. Thakur , “Change in surface free energy and surface resistivity of polycarbonate and polypropylene sheets after plasma exposure”, Optoelectronics and Advanced Materials, Vol 4, No. 2, 2010,
 - Rajesh Kumar, Changhoon Choi, In-Chul Hwang, Nagesh Thakur, “Carbon nanotube growth at the tip of SiO₂ nanowire”, Material Science and Engineering C ,
 - Pankaj Sharma, S. C. Kalyal, “Linear and Non-linear refractive index of As-Se-Ge Thin Films”, Journal of Applied Physics 2010.
 - Ambika, P.B.Barman, “An optical study of vacuum evaporated Se_{85-x}Te₁₅Bix chalcogenide thin films” Physica B 405, 2010, 822–827.
 - N.K. Saxena, N. Kumar, P.K.S. Pourush, S.K. Khah, “Study of magnetic properties of substituted LiTiZn-ferrite for microwave antenna applications”, Optoelectronics and Advanced Materials - Rapid Communication, Vol.4, No. 3, 2010, pp. 328-331.
 - N.K. Saxena, N. Kumar, P.K.S. Pourush, S.K. Khah, “Polarized switchable microstrip array antenna printed on LiTi ferrite”, International Journal of Microw. & Opt. Technology, Vol.5, No.3, 2010, 134-139.
 - Shikha Bharadwaj, H.P. Sinha, S.K. Khah, “Study of return loss of an array of stacked microstrip ring antenna”, International Journal of Information Tech. & Knowledge Management. Vol.2. No.2, 2010, 285-286.

Conferences

During the present quarter, faculty members of different departments presented several research papers in different national and international conferences all over the world. A list of these faculty members is given below:

- Dr. Manu Sharma presented a paper titled “Pentacyclic triterpenoid Lantadene A: Antitumor activity and expression of transcription factors” in OzBio 2010 conference at Melbourne, Australia during September 2010.
- Dr. Priyadarshini presented a research paper titled “Studies on Matrix Protein(s) from Human Calcium Oxalate Monohydrate Stones” in 10th Asian Congress of Urology, at Taipei, Taiwan during August 27-31, 2010.
- Dr. Rajesh Goyal presented two research papers titled, “A review of basic soil structure interaction models for geotechnical problems” and “Comparative Study of Wind Loads on Gable Roof Buildings With and Without Attached Canopies” in 4th International Conference of Structure Engineering, Mech & Comp in Cape Town, South Africa during 6-8 Sept. 2010.
- Mr. Anil Kumar and Ms. Poonam presented a research paper titled, “Hybrid Control of Tall Buildings against Ground Excitations Using H_{∞} Control Approach” in 79th International Convention of Structural Engineers, SEAOC, Palm Springs California , USA during 22-25 Sept. 2010.
- Mr. Kapil Dev presented a research paper titled “Layered Mixed Media Painting” in IEEE International Conference on Computer and Communication Technology at MNNIT Allahabad, India during September 17- 19, 2010.
- Mohammed Wajid presented a paper titled “Architecture for Faster DRAM Controller Design with Inbuilt Memory” in CICSyN2010, during July 28- 30, 2010 at Liverpool, United Kingdom.
- Mr. Ravi Kant Verma presented a paper titled “An Evolutionary approach to image noise cancellation using APSO” in CICSyN2010, during July 28- 30, 2010 at Liverpool, United Kingdom.
- Dheerendra Singh Gangwar, Davinder S Saini (Arrhythmia Detection for Ambulatory Patient Monitoring, Published in Springer IC3, IIIT Noida, Aug 9-11, 2010, India
- Dr. Nitin Gupta presented a paper titled “On Some Reliability Properties of Mean Inactivity Time Order under Weighing”, in International Congress of Mathematicians (ICM 2010), Hyderabad International Convention Centre (HICC), Hyderabad, India during 19 - 27 August, 2010.
- Dr. P.B. Barman presented papers titled “Non-linear refractive index of a-Ge-Se-In-Bi glassy thin films” and “Transport properties of amorphous Ge₂₀Te_{80-x}Bix glassy alloys” in International Vacuum Congress 2010 at Beijing, China during 23-27 August 2010.
- Dr. Anupriya Kaur went to Ryutsu Keisai University, Japan to present her research papers, titled “Children’s influence on family purchases: some new insights” and “Traditional and contemporary influences on consumer socialization: results from an exploratory in India”, in Global Marketing Conference, Sept 9 – 12, 2010.

Activities @ JUIT

This section is dedicated to the different activities organized at JUIT as well as participation of faculty members of different departments into workshops and training programmes.

- JUIT and the Louisiana Tech University, Ruston, LA, USA have jointly organized a Workshop on “Advanced Data Mining, Fusion and its Biomedical Applications (ADMFBFA)” from 31st August to 1st September, 2010.
- Dr. Ashwini Mathur attended CEP workshop on 3D cell culture & tissue engineering organized by IIT Delhi and BD Biosciences, at Textile Engineering Department, IIT Delhi between 25-27 Sept, 2010.



JUIT successfully organized 2 workshops.

JUIT organized a guest lecture on “*Advances in Database Systems and Data Mining*”, delivered by Prof Navneet Goyal, Deptt of CSE BITS PILANI and Dr Poonam Goyal, Asst Prof, Deptt of CSE BITS PILANI.



- Dr. S. Syal (BT & BI) attended a short term course on “Application based global trends in renewable energy sources.” The course was organized by NIT, Hamirpur, Himachal Pradesh during 20 – 24 September, 2010.
- A workshop on “Teaching Engineering using MATLAB and Simulink” was organized by Indo US Collaboration for Engineering Education (IUCEE) during July 12-14, 2010. It has been attended by Mr. Kapil Dev , Mr. Ravindara Bhatt , Mr. Yashwant Singh , Mr. Ravi Rastogi , Mrs Pooja Jain , Mr. Amit Kumar Singh, Dr. Pradeep Kumar at VIIT Pune, Viranjay Mohan Srivastava, Sajaivir Singh, Tapan Jain, Mohammed Wajid.
- Mr. Amol Vasudeva attended a workshop on "Computer Networks" at KIIT University, Bhubaneswar organized by IUCEE: 2010 Faculty Leadership Institute (FLI) during July 12 - 16, 2010.
- Mr. Sanjeev Patel attended a five days workshop on “Wireless Sensor Networks” at AIT Gurgaon, Haryana organized by IUCEE: 2010 Faculty Leadership Institute (FLI) during July 12-16, 2010.
- Dr. Rajesh Siddavatam attended a workshop on "Image Processing" organized by IUCEE: 2010 Faculty Leadership Institute (FLI), at Madanapalle Institute of Technology, AP, July 5-9, 2010.
- Mr Pardeep Kumar attended IUCEE "Data Mining" Indo US Engineering Faculty Leadership Institute 2010, Chandanwada Ramanama College of Engineering, Tirupati, (A.P) July 12 to July 16, 2010.
- Ms Shipra Sharma attended IUCEE "Compiler Design Using MATLAB" Indo US Engineering Faculty Leadership Institute 2010, Chitkara University, and Chandigarh June 28 to July 2, 2010.
- Mr. Praveen Kumar Tripathi attended IUCEE "Distributed Computing" Indo US Engineering Faculty Leadership Institute 2010, CVR College of Engineering, Hyderabad, June 21-June 25.
- Mohammed Wajid and Mr. Ravi Kant Verma attended a workshop on “Computer System Performance Analysis”, organized by IUCEE: 2010 Faculty Leadership Institute (FLI) at JUET Guna from July 5- 9, 2010.
- Sh Ravindara Bhatt -IUCEE "Distributed Sensor Networks" Indo US Engineering Faculty Leadership Institute 2010, Sri Venkateswara College Chittoor, A.P. June 28 to July 2, 2010.
- Dr. S.K. Jain attended a training course on “Rock Mechanics and Tunneling Technology” organized by the Indian Society for Rock Mechanics and Tunneling Technology (ISRMTT) at Central Soil and Material Research Station, New Delhi during 23-24 Sept. 2010.

Students' Activities

The section highlights the energy and vibrancy of our students.

Jaypee Youth Club (JYC) reconstituted for the new session 2010-11.

- Jaypee Youth Club (JYC) was reconstituted for the session 2010-11 with the following members: Rachit Singhal as President, Shruti Srivastava as Secretary and Madhav Dhingra as Treasurer.
- Our students participated in BOSM 2010, an International Sports Meet, organized at BITS, Pilani and won several prizes, both in individual capacity as well as team. Jaideep Brar won Gold Medal in Shot-put and Silver Medal in Discuss Throw. Deepika Aggarwal & Tarun Sharma won Bronze Medal in Mixed Double Table Tennis.
- The Table Tennis (Girls) Team qualified the leagues stage and went up to the quarter finals.
- The Volleyball (Boys) Team also qualified the leagues to go up to the quarter finals.
- The Football team and the Basketball team reached the Pre-Quarter stage.
- In addition to the team events, there was great participation in the athletic events as well.

Promotions and Appointments

We congratulate our faculty members who were promoted during the quarter. These include:



- Dr. Chanderdeep Tandon (BT & BI), Dr.P.B.Barman (PHY) promoted to Professor.
- Dr. Rajesh Siddvatam (CSE) promoted to Associate Professor.
- Dr. Chittaranjan Rout (BT & BI), Dr. Gargi Dey (BT & BI), Dr. Rakesh Kumar Bajaj (MA), Dr. Anupriya Kaur (PD) promoted to Assistant Professor.
- Ms. Neeru Sharma (ECE), Mr. Vipin Balyan (ECE), Mr. Tapan Jain (ECE), Ms. Shurti Jain (ECE), Ms. Vanita Rana (ECE), Mr. Suman Saha (CSE), Ms. Pooja Jain (CSE), Mr. Yaswant Singh (CSE), Mr. Nitin Rakesh (CSE) Mr. Sanjeev Patel (CSE) promoted to senior lecturer.
- Dr. Priyadarshini (BT & BI), Dr. Pato Kumari (Maths), Sh. Dheeraj Sharma (PHY), Sh. Rajesh Kumar (PHY), Ms. Meenakshi Arya (CSE) promoted to Lecturer.
- Dr. Ashok K. Gupta, Associate Professor, has been appointed the Officiating HOD, Deptt of Civil Engineering, w.e.f. July 1, 2010.

During the quarter, 2 faculty members were promoted to Professor, 1 to Associate Professor, 4 to Assistant Professor, 10 to Senior Lecturer and 5 were promoted to Lecturer.

We also welcome the new faculty members joining us. They are:

- Prof. Nirupama Prakash joined as Head of the Department of Professional Development on July 19th. She did Ph.D in Sociology from Benaras Hindu University, Varanasi and post doctoral research in Medical Sociology at Hartshill Medical Institute, Stroke-on-Trent, U.K.
- Dr. Neeraj Mahindroo joined as an Associate Professor in Biotechnology & Bioinformatics Department. He was working in Chemical Biology and Therapeutics, St. Jude’s Children’s Research Hospital, Memphis, TN, US for 4 years as a Post-doctoral Research Associate.
- Dr. Alok David John has joined as Assistant Professor. He did his Ph.D. & M.Tech. in Civil Engineering (Structures) from IIT Roorkee.
- Dr. Kuldeep Singh joined as a Senior Lecturer in Biotechnology & Bioinformatics Department. He was a Postdoctoral Scientist in Faculty of Pharmacy at University of Strasbourg, Strasbourg France.

The quarter saw number of new faculty members - 10 in BI/BT/Pharma, 3 in Civil Engineering, 2 in ECE, 1 in Maths, 3 in Department of Professional Development



- Dr. Tiratha Raj Singh joined as a Senior Lecturer in Biotechnology & Bioinformatics Department. He was a Postdoctoral fellow at Tel-Aviv University, Tel-Aviv, Israel.
- Dr. Neel Kanth has joined Department of Mathematics on 1st July, 2010 as a Lecturer. He has done Ph.D in the area of mathematical modeling and simulation from IIT Roorkee.
- Mr. Amit Goel has joined as Senior Lecturer in Department of Civil Engineering on 13th July. He has done M.E. (Highways) in 2002 from Punjab Engineering College, Chandigarh.
- Dr. Jayashree Ramana joined as a Lecturer in Biotechnology & Bioinformatics Department. She has submitted Ph.D. thesis in Computational biology, ICGEB, New Delhi
- Dr. Girdhari Lal Gupta, joined as a Lecturer in Biotechnology & Bioinformatics Department.
- Mr. Uday Banu joined as a Lecturer in Biotechnology & Bioinformatics Department.
- Mr. Raj Kumar Tiwari joined as a Lecturer in Biotechnology & Bioinformatics Department.
- Mr. Garlapati Vijay Kumar joined as a joined a Lecturer in Biotechnology & Bioinformatics Department. He has submitted his PhD thesis at IIT, Kharagpur.
- Mr. Abhishkek Chakraborty, Lecturer M.Tech (Environmental Engg.) from IIT Kanpur with Academic Excellence Award in 2009, securing CPI 9.7/10 (class topper).
- Mr. Salman Raju Talluri, Lecturer, in ECE, M.Tech (Microwave and Photonics), IIT Kanpur.
- Mr. Pradeep Garg, Lecturer, M.Tech (Electronics and Communication), JIIT Noida
- Dr. Sakshi Varshney joined JUIT on 8th July, she is an M.Com and PhD (Finance) from Lucknow University and currently pursuing her MBA from ICFAI.
- Ms. Neha Aggarwal joined on 22nd July and currently perusing her PhD from JUIT. She is an MBA from LM Thapar School of Management, Patiala.
- Mr. Sandeep Kumar Kushwaha joined as an Associate Lecturer in Biotechnology & Bioinformatics Department. He is pursuing PhD from Deptt of Bioinformatics, MANIT, Bhopal.
- Mr. Ahmed Nawaz Khan joined as an Associate Lecturer in Biotechnology & Bioinformatics Department. He did Master of Pharmacy in Pharmaceutical Chemistry from Babu Banarsi Das National Institute of Technology, Lucknow, U.P in 2009.

Extended Leave

- Dr. P.K. Naik (BT & BI) has been awarded BOYSCAST Fellowship and is on sabbatical leave for one year to work with Emory University School of Medicine, Georgia, U.S.A.
- Dr. Nitin (CSE) is on a 10 months sabbatical visit to the University of Nebraska.

PhDs Completed

We saw the completion of 4 PhDs during the quarter, one of which is from ISM, Dhanbad.

- Ms. Priyadarshini (BT & BI) completed her PhD on "Inhibitory Biomolecules of Kidney Stone Formation".
- Ms. Pato Kumari (Maths) has been awarded Ph.D. degree in Applied Mathematics on "Study of Some Problems of Seismic Waves in Elastic Medium", from ISM Dhanbad.
- Ms. Sangeeta Thakur (PHY) was awarded PhD in Physics for her work on "Ferrite Nanoparticles".
- Ms. Anupriya Kaur (PD) completed her PhD on the "Major Influences of Teen Consumer Socialization and Their Outcomes".

Bits 'n' Pieces

- Biotechnology & Bioinformatics Department has been awarded "Programme Support for Elucidation of Biosynthetic Pathways & Development of Gene Markers for High Value Endangered Medicinal Herbs of North-Western Himalayas" under the category of "Centre of Excellence and Innovation in Biotechnology" by the Department of Biotechnology, Ministry of Science & Technology, Govt. of India.
- Biotechnology & Bioinformatics Deptt. has been ranked No. 1 in India amongst all the private schools in India as per the survey conducted by Biospectrum <http://www.juit.ac.in/biosp/Biospectrum2010.pdf>
- Patent publication - Hemant Sood and RS Chauhan "A Process of Enriching the Amount of Medicinal Compound Picroside-1 in Shoots Of Medicinal Herb, Picrohiza Kurroa" Publication Date : 06/08/2010, Journal No. - 32/2010
- Patent Filed . Chauhan RS, Tamanna Anwar, Ashwani Mathur, Ashutosh Malhotra & Garima Mathur. 2010. Thermo-halotolerant Lipase by a New Strain of Staphylococcus arlettae. Appl. No. 1865/DL/2010.
- An educational Tour was organized by Dr. Richa Babbar (CIE) on August 10, 2010 for Pre-final year students for Meteorological Observatory, Shimla. This observatory is housed within the complex of Central Potato Research Institute (CPRI), Bemloe, Shimla and is a source of meteorological data for Meteorological Centre, Shimla.
- DRDO sanctioned a project on Microstrip antennas which has started in July 2010 in the Physics Department.
- Dr. Sudhir Syal (BT & BI) did consultancy work for Euroasia group in the month of August, 2010. Eurasia Group is the world's leading global political risk research and consulting firm; head office located in New York.

3 faculty members and 1 research scholar have completed their PhD.



Ministry of Science & Technology recognized the Deptt of BI/BT as a "Centre of Excellence".