



HILLY RAMBLINGS

JUIT's Quarterly Newsletter



Vol. 3, No. 1 (July-Sept 2012)

October 1, 2012

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Journal Publications

Mention below are the Journal publications of the Faculty members of different departments, during the quarter:

1. Akanksha Gandhi and Gargi Dey, "Fermentation responses and in vitro radical scavenging activities of *Fagopyrum esculentum*", International Journal of Food Science and Nutrition, DOI: 10.3109/09637486.2012.710891, early online 1-5, 2012.
2. A. Usmani, A. Nanda, S.K. Jain, A. Mandal, "Analysis and design of an underground portal in lateritic soils", Geotechnical and Geological Engineering, Vol. 30, Number 4, pp. 761-773, Springer.
3. A. Thakur, R.R. Singh, P.B. Barman, "Crystallization Kinetics of Strontium Hexaferrite: Correlation to Structural, Morphological, Dielectric and Magnetic Properties" Electronic Materials Letters, DOI : 10.1007/s13391-012-2085-z. 2012.
4. A. Thakur, R.R. Singh, P.B. Barman, "Structural and magnetic properties of La³⁺ substituted strontium hexaferrite nanoparticles prepared by citrate precursor method" Journal of Magnetism and Magnetic Materials Vol 326 (2013) 35-40.
5. Amol Vasudeva and Manu Sood, "Sybil Attack on Lowest ID Clustering Algorithm in the Mobile Ad Hoc Network", International Journal of Network Security and its Applications, Vol. 4, No. 5 pp. 135-147, September 2012. DOI:10.5121/IJNSA.2012.4511.
6. Jayashree Ramana and Tamanna. "dbDiarrhea: The database of pathogen proteins and vaccine antigens from diarrheal pathogens", Infection, Genetics and Evolution, Vol 12(8), 1647-165, 2012.
7. Neha Sharma, Sunanda Sharda, Vineet Sharma and Pankaj Sharma, "Evaluation of physical parameters for new quaternary Ge₁₉-ySe_{63.8}Sb_{17.2}Tey chalcogenide glasses" Chalcogenide Letters Vol 9 (8) (2012) 355 - 363.
8. Nitin, Amit Srivastava, Ayushi Dwivedi, Karan Sood, Manvee Gupta and Pranav Shandil, "Behavioural Responses and Proclivity of Facebook Users Towards Flaming", Issues in Information System, Vol 13, Issue 1, pp. 25-39, 2012.
9. Singh, C, R. K. Baboota, P. K. Naik, and Harvinder Singh, "Biocompatible synthesis of silver and gold nanoparticles using Leaf extract of *Dalbergia sissoo*." Advanced material letters, Vol. 3(4), 279-285, 2012.
10. Sachin Kumar, K.Singh and R.K.Gupta, "Painleve Analysis, Lie Symmetries and Exact Solutions for (2+1) Dimensional Variable Coefficient Broer-Kaup Equations", Communication in Nonlinear Science and Numerical Simulation 17 (4) (2012) 1529-1541.
11. Sachin Kumar, K. Singh and R. K. Gupta, "Coupled Higgs Field Equation and Hamiltonian Amplitude Equation: Lie Classical Approach and G'/G -Expansion Method", Parmana Journal of Physics, 79 (2012), 41-60.
12. Saurav, "Application Of Nanotechnology In Building Materials" , International Journal of Engineering Research and Applications (IJERA), Vol. 2, Issue 5, Sept.- Oct. 2012, pp.1077-1082.
13. Shruti Jain, Pradeep K. Naik, "Communication of signals and responses leading to cell death using Engineered Regulatory Networks", Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS), vol. 3, no. 3, pp 492-508, July - Sep 2012, (ISSN : 0975-8585).
14. Sunanda Sharda, Neha Sharma, Pankaj Sharma and Vineet Sharma, "Basic physical analysis of new Sb-Se-Ge-In chalcogenide glassy alloys by predicting structural units: A theoretical approach" Chalcogenide Letters Vol 9 (9) (2012) 389 - 395.

Editorial Board:


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Conference Publications

1. Alok Joshi, Dhruv Bhardwaj, Davinder S. Saini, "PAPR reduction in OFDM with FEC (RS-CC and Turbo coding) system using DHT pre-coding" IEEE International Conference on Electronics and Optoelectronics (ICEOE2012), pp. 14-18, Jul. 2012 Shenyang, China.
2. Nitin Gupta, Neeraj Gandotra and Rakesh K Bajaj, "Reliability Properties of Series and Parallel Systems under Equilibrium Distribution", IEEE proceedings of Second International conference on Advances in Computing and Communications, 2012, 203-206, DOI:10.1109/ICACC.2012.47.
3. Rakesh K Bajaj, Tanuj Kumar and Nitin Gupta, "R-norm Intuitionistic Fuzzy Information Measures and its Computational Applications", Springer: Communications in Computer and Information Science, Proc. of ICECCS 2012, Volume 305, Part 8, 372-380, DOI:10.1007/978-3-642-32112-2_43.
4. Rakesh K Bajaj and Nitin Gupta, "Utility and Fuzziness Aspects of the Information Measures in Experimental Observations and Computations", IEEE proceedings of Second International conference on Advances in Computing and Communications, 2012, pp. 9-13, DOI:10.1109/ICACC.2012.3
5. S.K. Jain, "Constitutive modeling using Cam Clay plasticity", Proc. QIP Short Term Course on Characterisation and Modeling of Soil Behavior, 17-22 Sept. 2012, IIT Madras.
6. S.K. Jain, "Mechanism of undrained hardening in Cam Clay model", Proc. QIP Short Term Course on Characterisation and Modeling of Soil Behavior, 17-22 Sept. 2012, IIT Madras.
7. S.K. Jain, "Predicting triaxial tests using Cam Clay model", Proc. QIP Short Term Course on Characterisation and Modeling of Soil Behavior, 17-22 Sept. 2012, IIT Madras.



Gargi Dey and Bharti Negi (BT & BI) filed a Patent for their work on "A symbiotic formulation of sea buckthorn berries with radical scavenging potential".

Paper presented in Conferences

1. Aditya Bhalla, Sudhir Kumar, KM Bischoff, Rajesh Kumar Sani. "Improved lignocellulose conversion to fermentable sugars using thermostable enzymes." In 62nd Society of Industrial Microbiology and Biotechnology (SIMB) Annual Conference, Washington DC, USA (August 12 – 16, 2012).
2. Dr. Anupriya Kaur, Department of Humanities & Social Sciences presented a research paper on "SEM Approach to Teen Influence in Family Decision-making" at the International Conference on Marketing Studies at Bangkok, Thailand during August 17-19, 2012.
3. Rajesh Kumar Sani, Aditya Bhalla, Sudhir Kumar, KM Bischoff. "Improved lignocelluloses conversion to biofuels with thermophilic bacteria." In 62nd Society of Industrial Microbiology and Biotechnology (SIMB) Annual Conference, Washington DC, USA (August 12 – 16, 2012).
4. Rajesh Kumar Sani, Sudhir Kumar, Aditya Bhalla, Anne Winkel. "Challenges of biohydrogen production at industrial scale." In 62nd Society of Industrial Microbiology and Biotechnology (SIMB) Annual Conference, Washington DC, USA (August 12 – 16, 2012).
5. Sudhir Kumar, Anne Winkel, Aditya Bhalla, Rajesh Kumar Sani. "Consolidated biohydrogen production from extruded prairie cord grass by Thermoanaerobacterium sp. strain K1." In 62nd Society of Industrial Microbiology and Biotechnology (SIMB) annual conference, Washington DC, USA (August 12 – 16, 2012).




Prof. Nirupama Prakash (HOD, HSS) presented a paper on "Overcoming Barriers for Women Empowerment Through Technology Intervention", 13th Intl Conference of International Society for the Study of European Ideas- The Ethical Challenge of Multidisciplinarity : Reconciling the Three Narratives- Arts, Science, and Philosophy, University of Cyprus, Nicosia, 2-6 July, 2012.

Book Chapters

1. Nirupama Prakash, Suman Kapur et al : "Assessment of the Prevalence of Under-nutrition and Anaemia in Adolescents Residing in Villages around Pilani Area of Rajasthan State of India" in Empowering Women through Better Healthcare and Nutrition in Developing Countries edited by Sheel Sharma & Angella Atwaru Atero, Published by NAM S&T Centre & Regency publishers, New Delhi, 2012.
2. Sanjana R.Bhat and Nirupama Prakash : "The Role of Awareness, Comprehension and Attitude Constructs in Behaviour Adoption towards Alleviation of Nutritional Anaemia: A Before-and-After Study of Adolescent School Girls" in Empowering Women through Better Healthcare and Nutrition in Developing Countries edited by Sheel Sharma & Angella Atwaru Atero, Published by NAM S&T Centre & Regency publishers, New Delhi, 2012.
3. W. B. Vasantha Kandasamy, Florentin Smarandache, R. Sujatha, and R. S. Raja Durai, "Erasure Techniques in MRD Codes," Columbus, OH: ZIP publishing, 2012. pp. 49-107 (Chapters III and IV).

Participation in Workshops/Training Programs

1. Dr. G. L. Gupta attended a workshop on "Exercise Physiology and Langendorff System" at Indira Gandhi Medical College, Shimla on September 27, 2012.
 2. Amol Vasudeva attended a two day Workshop on Wireless Networks and Network Simulator (WNNS-2012), Jaypee University of Information Technology, Waknaghat, Solan, July 09-10, 2012.
 3. Meenakshi Sood attended a short term course on "Soft Computing Tools & Practice On Signal and Image Processing Application" from 9th July to 14th July 2012 organized by National Institute Of Technology, Rourkela, Odisha.
 4. Dr. Pradeep Kumar Pandey participated in the " International Conference on Differential Geometry, Functional Analysis and Applications (ICDGF-AA-12), September 08-10, 2012" held at Jamia Millia Islamia (Central University), New Delhi.
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Promotions

1. Dr. Harvinder Singh (BT & BI), Dr. V.M. Srivastava (ECE) and Dr. Shruti Jain (ECE) have been promoted to Assistant Professor.
2. Dr. G.L. Gupta (BT & BI), Dr. Poonam Sharma (BT & BI), Dr. Uday Bhanu (BT & BI), Dr. Jayshree Ramanna (BT & BI), Dr. Neelkanth (Maths), Mr. Pradeep Garg (ECE), Mr. Salman Raju Talluri (ECE) and Mrs. Meenakshi Sood (ECE) have been promoted to Senior Lecturer.

New Faculty

1. Dr. Aklank Jain joined as an Associate Professor in the Department of Biotechnology at JUIT, Wagnaghat (HP) in August, 2012. Dr. Jain is a recipient of prestigious Ramanujan fellowship from Department of Science and Technology, India. He did his postdoctoral training from renowned cancer institutes like MD Anderson Cancer Center, Houston, Texas, USA and Oncology Institute of Southern Switzerland, Bellinzona, Switzerland.
2. Dr. Gunjan Goel joined as Senior Lecturer in the Department of Biotechnology and Bioinformatics in September, 2012. He did his Ph.D. from National Dairy Research Institute (ICAR), Karnal. He also worked as a postdoctoral fellow for four years in University of Hohenheim, Germany and University of Ghent, Belgium.
3. Mr. Khushwant Singh Chauhan joined as a Lecturer in the Dept. of Civil Engineering on 9th July 2012. Before joining he was deputy manager in ICT New Delhi & GMT in Soma Enterprise Limited. He has a M.Tech in Infrastructure Design and Management from IIT Kharagpur and B.Tech in Civil Engineering from MNIT Jaipur.
4. Dr. Manju Jain joined as a Senior Lecturer in the Department of Biotechnology and Bioinformatics at JUIT, Wagnaghat (HP) in August, 2012. She completed her Bachelors in Microbiology from University of Delhi and Masters in Biotechnology from Allahabad University. After earning her doctoral degree from Jawaharlal Nehru University, Delhi, she worked at MD Anderson Cancer Centre for her postdoctoral training.
5. Dr. Maneesh Jaiswal joined as a Lecturer in the Department of Biotechnology and Bioinformatics at JUIT, Wagnaghat (HP) in July 2012. He completed his Bachelor in Pharmacy from B.N. College of Pharmacy, Udaipur, Rajasthan University, Jaipur, India (Oct., 2001), Master in Pharmacy (Specialization with Pharmaceutics) from Institute of Pharmacy, Bundelkhand University, Jhansi, U.P., India (July, 2005). He did his PhD. from Centre for Biomedical Engineering, Indian Institute of Technology, Delhi, India (April, 2011).
6. Mr. Nipen Kumar Das joined Civil Engineering dept as lecturer on 10 July 2012. Before joining JUIT he worked in Galgotia Engineering College, Greater Noida, and in LPU Phagwara, as Assistant Professor for 3 years. He has done M.Tech in Civil Engineering with specialization in Hydraulic and Water Resources Engineering from IIT Kharagpur in 2009 and B.Sc. Engineering in Civil Engineering from MIT Muzaffarpur in 2007.
7. Dr. Veeresh Gali joined as a Professor of Civil Engineering. Earlier, he was an Associate Professor at JUIT during 2006-2009. During 2009-2011 he was associated with the University of Malaya, Kuala Lumpur, Malaysia as a visiting faculty in the department of civil engineering. He holds a Ph.D. from IIT Roorkee.
8. Mr. Ravinder Ahuja and Ms. Ramanpreet Kaur have joined as a Lecturer in the Department of CSE and ICT. They are an M.Tech. from IIT Roorkee and NIT Jalandhar respectively.
9. Ms. Ansuyia Makroo and Ms. Komal Mahajan joined as a Lecturer in the department of CSE and ICT. Both of them are an M.S. from BITS Pilani.
10. Dr. Saurabh Bansal joined as a Lecturer in the Department of Biotechnology and Bioinformatics at JUIT, Wagnaghat (HP) in July, 2012. He got his graduation degree from Dr. B.R. Ambedkar University, Agra in 2004. He post graduated in Biotechnology from Jiwaji University, Gwalior (MP) in 2006. He obtained his Ph.D. degree from IIT Delhi in the subject area of protein engineering and biochemistry.
11. Mr. Saurav joined JUIT on 14 July 2012 as Lecturer in Civil Engineering after completing M. Tech. in Civil Engineering (Structures) from IIT BHU. He has a B. Tech degree from BIT Sindri, Dhanbad.
12. Mr. Saurabh Rawat joined the Dept. of Civil Engineering on 10th July 2012 after completing his M.Tech in Civil Engineering (Geotechnical and Geoenvironment Engineering) from IIT Delhi. His B.Tech in Civil engineering is from G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhnad.
13. Dr. Sanjiv Kumar Tiwari joined as a lecturer in Department of Physics. He has earned his PhD from IIT Kanpur and did his Post doctorate from TIFR Mumbai. He was also a recipient of Feinberg Fellowship from Weizmann Institute of Science Rehovot, Israel.
14. Mr. Deler Singh has joined as an Associate Lecturer in the Dept. of Humanities and Social Sciences. He is pursuing his PhD (Eng) from H.P. University and prior to joining JUIT, he was working as a Lecturer in NIT Hamirpur.

During the quarter, 16 new faculty members have joined in different departments, 1 as an Asso. Professor, 1 as an Assis. Professor, 2 as Sr. Lecturer, 11 as Lecturer and 1 as Asso. Lecturer.

Activities @ JUIT

1. Dr Veena Mendiratta from Bell Labs, Alcatel-Lucent gave various talks related to software failures and network reliability from September 23 to October 5, 2012 under the "India International Education Administrators Program IIE's Council for International Exchange of Scholars (CIES)".
2. Department of Civil Engineering organized a 5 days IUCEE workshop on "Introduction to Finite Element Analysis for Civil Engineers" during July 30 - August 3, 2012. Prof. Subramaniam Rajan, Arizona State University, Tempe USA was the speaker for the workshop. More than 70 participants attended the workshop including external participants. Dr. Rajesh Goyal and Prof. A.K. Gupta were the coordinators for the workshop.

Between 1901 and 2012 the Nobel Prize and Prize in Economic Sciences have been awarded 44 times to women.

3. Department of Mathematics organized “Instructional School for Lecturers (ISL) Differential Equations and Computations” under Advanced Training in Mathematics (ATM) program of National Board for Higher Mathematics (NBHM) during 4th– 6th June 2012. The convenors were Prof. Harinder Singh (JUIT Wagnaghat), Prof. Mythily Ramaswamy (TIFR-CAM Bangalore) and Prof. S. Sunder (IIT Madras). They along with Prof. A. S. Vasudeva Murthy and Prof. K. Sandeep (TIFR-CAM Bangalore) and Prof. Karanjeet Singh (JUIT Wagnaghat) were the resource persons. Twenty two persons from all over India attended.
4. Department of Civil Engineering organized an invited lecture on “Application of Principles of Reliability to Bridges” on August 18, 2012. Prof. Chandrasekhar Putcha, California State University, Fullerton USA was the invited speaker. Students and faculty of Civil Engineering Department interacted with the speaker on this interesting topic. Dr. Rajesh Goyal and Prof. A.K. Gupta were coordinators.
5. Department of CSE & ICT organized a two days workshop on "ETHICAL HACKING" during 18th & 19th August 2012. The workshop coordinator was Mr. P.K. Gupta.
6. Department of CSE & ICT organized a two days Workshop on "Wireless Networks and Network Simulator (WNS-2012) from July 9 to July 10 2012. The workshop coordinator was Dr. Yashwant.

Awards and Honors

1. Dr. G. L. Gupta, Sr. Lecturer, Department of Biotechnology and Bioinformatics, got a project sanctioned on “Development of a polyherbal preparation to treat ethanol abstinence syndrome” from Department of Science and Technology (DST), Govt. of India for the duration 2012-2015.
2. Dr. Harvinder Singh, Assistant Professor, Department of Biotechnology and Bioinformatics got a project sanctioned on “Genetic analysis to avoid inbreeding of the endangered Western Tragopan in the aviaries of Himachal Pradesh, from Department of Science and Technology (DST), Govt. of India for the duration 2012-2015
3. Dr. Shruti Jain, Assistant Professor, Department of Electronics and Communication Engineering, received a project titled “Fabrication of energy Harvesting Prototypes using Piezoelectric Materials” from DRDO. PI: Dr. Shruti Jain, INR 9.8 Lacs, July 2012.

Knowledge Bytes

Here are the some interesting facts about the World’s most prestigious prize, the Nobel Prize.

Alfred Nobel (1833-1896) was born in Stockholm, Sweden, on October 21, 1833. Nobel was fluent in several languages, and wrote poetry and drama. Nobel was also very interested in social and peace-related issues, and held views that were considered radical during his time. Since 1901, the Nobel Prize has been honoring men and women from all corners of the globe for outstanding achievements in physics, chemistry, medicine, literature, and for work in peace. The foundations for the prize were laid in 1895 when Alfred Nobel wrote his last will, leaving much of his wealth to the establishment of the Nobel Prize.

On November 27, 1895, Alfred Nobel signed his last will in Paris. When it was opened and read after his death, the will caused a lot of controversy both in Sweden and internationally, as Nobel had left much of his wealth for the establishment of a prize! His family opposed the establishment of the Nobel Prize, and the prize awarders he named refused to do what he had requested in his will. It was five years before the first Nobel Prize could be awarded in 1901.

The Nobel Foundation was founded as a private organisation on 29 June 1900, to manage the finances and administration of the Nobel Prizes. In accordance with Nobel's will, the primary task of the Foundation is to manage the fortune Nobel left. The Foundation is not involved in the process of selecting the Nobel laureates. Every year since 1901 the Nobel Prize has been awarded for achievements in physics, chemistry, physiology or medicine, literature and for peace. In 1968, Sveriges Riksbank (Central Bank of Sweden and the World’s oldest Central Bank) established The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, founder of the Nobel Prize. Each prize consists of a medal, personal diploma, and a cash award.

The first Nobel Prize, in 1901, was given to Wilhelm Conrad Röntgen (Physics), Jacobus Henricus van 't Hoff (Chemistry), Emil Adolf von Behring (Physiology or Medicine), Sully Prudhomme (Literature) and Jean Henry Dunant & Frédéric Passy (Literature)

Lawrence Bragg (Physics) is the youngest Nobel Laureates and he got the prize when he was just 25 years old. He was awarded jointly with William Bragg for their work on “analysis of crystal structure by means of X-Rays”, in the year 1915.

On the other hand Leonid Hurwicz (Economic Sciences) is the oldest Nobel Laureates and he got the prize jointly with Eric S. Maskin and Roger B. Myerson in the year 2007, at age of 90 years. He pioneered in the field of mechanism design and formulated a general mathematical framework for analyzing institutions implementing collective decision making.

839 Laureates and 24 organizations have been awarded the Nobel Prize between 1901 and 2012. Of them, 71 are Laureates in Economic Sciences. A small number of individuals and organizations have been honoured more than once, which means that 835 individuals and 21 unique organizations have received the Nobel Prize in total.