Prajwalam

Newsletter of IIT Ropar

Vol -1 Issue -1 (January 2012)

DIRECTOR's MESSAGE

It gives me immense pleasure to introduce the first edition of the quarterly newsletter 'PRAJWALAM'. We are one of the eight new IITs set up in 2008-09. Currently we are functioning from a self-contained transit campus that has all the required infrastructure for teaching and research. We will be moving to our own new campus in about two years which is little over 500 acres. In addition our transit campus has four hostels, three tennis courts, a football ground, a cricket ground, a volleyball court, a basketball court, a badminton court, a gymnasium and flats for faculty and staff. The library of our institute is very rich in terms of books and journals collections, and is growing rapidly and steadily. One of our greatest strength is our highly qualified and dedicated faculty members and staff. Our students are very innovative and ever eager to learn new concepts. Apart from teaching, our faculty members are deeply engaged in research work and scientific collaboration in national and international projects. Our students have demonstrated their capabilities and brilliance by securing internship in highly reputed international organizations. Our faculty and students regularly present their research findings in various academic conferences. It may be pertinent to mention that the students in collaboration with the teachers have successfully organized two annual cultural festivals (Zeitgeist) since 2010. Congratulations to the members of editorial board and the faculty and staff members, and specially the students who combinedly helped in materializing the maiden issue of 'Prajwalam'. It is endeavor of the newsletter to acquaint its readers with the achievements of the IIT Ropar fraternity.

M. K. Surappa

EDITORIAL

It is with great pleasure that we bring you the first issue of Prajwalam, the quarterly newsletter of IIT Ropar. The name of our newsletter- Prajwalam- signifies brightness, and it very aptly sums up the prospects of our Institute. With faculty that consists of bright minds and students who are keen to leave a mark, our future is in safe hands indeed. The flame in our logo stands for the fire of knowledge that our souls are kindled with and the passion for learning that our beings are imbued with. We are thankful to our students for coming up with the name and logo of the newsletter. The current newsletter highlights the activities of our students and the achievements of faculty during the past one year. It also features visits by eminent scholars from India and abroad to IIT Ropar. This newsletter also throws light on the infrastructure that IIT Ropar has, and the facilities that it provides. The intent of Prajwalam is to disseminate information about our Institute, and we hope that the readers find the issues informative and useful. We are thankful to the faculty and staff of IIT Ropar for their valuable inputs, and we welcome suggestions and feedback that will help us improve further. We can be reached at newsletter@iitrpr.ac.in.

WHY PRAJWALAM..?

Enlightening the universe with technology and innovation

"Prajwalam" is a Sanskrit word which means, "to ignite".

It's an old custom in Indian culture to ignite a 'deepak' as a sign of goodness whenever we start something new. This is because a flame always rises and shows us the path in darkness. Prajwalam symbolizes that IIT Ropar will rise up and touch the zenith. It will be a torchbearer for other educational institutes and will enlighten the path to end darkness that still prevails in the society. Prajwalam will be a good luck charm for this institute, its scholars, its faculty, and most importantly, the nation.

ABOUT IIT ROPAR

Indian Institute of Technology Ropar (IIT Ropar) is one of the eight new IITs set up by the Ministry of Human Resource Development (MHRD), Government of India, to expand and enhance the quality of technical education in the country. The Ministry of Human Resource Development (MHRD), Govt. of India, vide its Notification dated 9th May, 2008 decided that Indian Institute of Technology Delhi would mentor the setting up of IIT Ropar. The foundation stone of the Institute was laid on 24th February 2009. IIT Ropar registered as Society under Society Registration Act 1860 on 29th July 2008. The Institute is currently operating from a transit campus, occupied earlier by the Government Polytechnic for Women. The transit campus was inaugurated on 19th August 2009. On 20th August, 2009, the classes at transit campus commenced. Professor M.K. Surappa joined as the first Director of the institute in June, 2009, and Shri A. Palanivel joined as the first Registrar in July, 2009. This institute is committed to providing state-of-the-art technical education in a variety of fields and also to facilitating transmission of knowledge in keeping with the latest developments in pedagogy. These two areas of focus will enable students to gain exposure to recent trends in their chosen domains of study and practical experience through a wide variety of activities that the institute facilitates in its own campus and arranges for in collaboration with industry and other institutes. The Government of Punjab has allotted 501 acres of land on the banks of the river Satluj to IIT Ropar. When completed, the campus will be a self-contained township catering to all the needs of faculty, staff and students. At the transit campus, arrangements have been made for classes, laboratories, hostels and faculty accommodation. In due course of time, the institute will shift to the main campus. At present, the institute offers Bachelor of Technology (B. Tech.) programme in the following disciplines: Computer Science and Engineering, Electrical Engineering, and Mechanical Engineering. This programme is spread over a period of eight semesters and the institute admits forty students in each branch. These students are selected through IIT Joint Entrance Examination conducted every year. Some of the faculty of IIT Delhi also taught few courses during the first two semesters at IIT Ropar. In addition, the institute now offers doctoral programme in several disciplines.

FACILITIES AT IIT ROPAR (TRANSIT CAMPUS)

The Central Library of IIT Ropar is functioning as the primary information resource and repository for all teaching and research activities at the institute. Apart from textbooks and recommended reading material prescribed for each course offered at the institute, the library houses a growing collection of research monographs, reports, multi-volume reference works, dictionaries, encyclopedias, handbooks, and so on. In addition, the library also facilitates access to a number of journals through its participation in consortia such as INDEST-AICTE. At present, users can consult more than 3500 books (available on shelves) and hundreds of journals (through electronic subscription).

The Institute has the following facilities in addition to the classrooms, laboratories in the transit campus:

- Separate hostels for boys and girls with dining facilities, recreation facilities, indoor games and internet connectivity.
- Medical centre with basic medical facilities
- Sports facilities like cricket ground, football ground, hockey ground and tennis court ,etc.
- Residential accommodation for faculty and staff
- Guest House
- State Bank of India
- Post office

BOARD OF GOVERNORS, IIT ROPAR

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Department of Science and Technology
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Prof. M. K. Surappa
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Professor
Department of Physics
Indian Institute of Technology Ropar
Nangal Road, Rupnagar –140001 (Punjab)

Special Invitee

Prof. R. K. Shevgaonkar
Director
Indian Institute of Technology Delhi
Hauz Khas, New Delhi - 110016

Secretary

Mr. A. Palanivel
Registrar
Indian Institute of Technology Ropar
Nangal Road, Rupnagar -140001 (Punjab)

FACULTY LIST

S.N.	NAME	DESIGNATION	PhD from	JOINING	DEPARTMENT
1	Prof. M.K. Surappa	Professor	IISc, Bangalore	June 2009	SMMEE
2	Dr. Subhendu Sarkar	Assistant Professor	Saha Institute of Nuclear Physics, Kolkata	June 2009	Physics
3	Dr. Narinder Singh	Assistant Professor	Guru Nanak Dev University, Amritsar	July 2009	Chemistry
4	Dr. M. Prabhakar	Assistant Professor	IIT Delhi	July 2009	Mathematics
5	Dr. Rajendra Srivastava	Assistant Professor	National Chemical Laboratory, Pune	July 2009	Chemistry
6	Dr. Harpreet Singh	Assistant Professor	IIT Roorkee	July 2009	SMMEE
7	Dr. Shubhrangshu Dasgupta	Assistant Professor	Physical Research Laboratory, Ahmedabad	August 2009	Physics
8	Dr. Himanshu Tyagi	Assistant Professor	Arizona State University, USA	September 2009	SMMEE
9	Dr. Avijit Goswami	Assistant Professor	Heidelberg University, Germany	December 2009	Chemistry
10	Dr. Navin Kumar	Assistant Professor	IIT Delhi	January 2010	SMMEE
11	Dr. Manoranjan Mishra	Assistant Professor	IISc, Bangalore	February 2010	Mathematics
12	Dr. Daya Ram Gaur	Assistant Professor	Simon Fraser University , Canada	February 2010	CSE
13	Dr. Apurva Mudgal	Assistant Professor	Georgia Institute of Technology, USA	March 2010	CSE
14	Dr. Subash Chandra Martha	Assistant Professor	IIT Guwahati	April 2010	Mathematics
15	Dr. Asoka Biswas	Assistant Professor	Physical Research Laboratory, Ahmedabad	April 2010	Physics
16	Dr. Manju Khan	Assistant Professor	IIT Delhi	April 2010	Mathematics
17	Dr. Rakesh Kumar	Assistant Professor	IIT Bombay	May 2010	Physics
18	Dr. Arvind Kumar Gupta	Assistant Professor	IIT Roorkee	May 2010	Mathematics
19	Dr. S. S. Gupta	Assistant Professor	Clemson University, USA	May 2010	Physics
20	Dr. Nitin Auluck	Assistant Professor	University of Cincinnati, USA	June 2010	CSE
21	Dr. Satwinder Jit Singh	Assistant Professor	IISc, Bangalore	June 2010	SMMEE
22	Dr. Ramjee Repaka	Assistant Professor	IIT Kharagpur	June 2010	SMMEE
23	Dr. Rano Ringo	Assistant Professor	IIT Roorkee	June 2010	HSS
24	Dr. Somdev Kar	Assistant Professor	University of Tübingen, Germany	June 2010	HSS
25	Prof. P.K. Raina	Professor	IIT Kanpur	July 2010	Physics
26	Dr. J.S. Sahambi	Associate Professor	IIT Delhi	July 2010	EE
27	Dr. Snehlata Jaswal	Visiting Faculty	University of Edinburgh, UK	July 2010	HSS
28	Prof. Sanjoy Roy	Professor	University of Calgary, Canada	August 2010	EE
29	Dr. Dhilip Kumar T. J.	Assistant Professor	IIT Madras	September 2010	Chemistry
30	Dr. Prabal Banerjee	Assistant Professor	National Chemical Laboratory, Pune	October 2010	Chemistry
31	Dr. Debaprasad Mandal	Assistant Professor	IIT Kanpur	November 2010	Chemistry
32	Dr. Anupam Agrawal	Assistant Professor	IIT Kanpur	December 2010	SMMEE
33	Dr. Ekta Singla	Assistant Professor	IIT Kanpur	December 2010	SMMEE
34	Dr. Anshu Dhar Jayal	Assistant Professor	University of Utah, USA	January 2011	SMMEE
35	Dr. Deepti Bathula	Assistant Professor	Yale University, USA	April 2011	CSE
36	Dr. Jitendra Prasad	Assistant Professor	Michigan Sate University, USA	April 2011	SMMEE
37	Dr. Prabir Sarkar	Assistant Professor	IISc, Bangalore	April 2011	SMMEE
38	Dr. Brajesh Pandey	Visiting Scientist	IIT Bombay	June 2011	EE
39	Dr. Dharmendra Tripathi	Visiting Faculty	Institute of Technology BHU	June 2011	Math
40	Ms. Ranjana Sodhi	Assistant Professor	IIT Kanpur	July 2011	EE
41	Dr. Kalaga Venu Madhav	Assistant Professor	IISc, Bangalore	July 2011	EE
42	Dr. Anil Seth	Visiting Faculty	Northwestern University, USA	August 2011	CSE
43	Dr. Kamal Kumar Choudhary	Assistant Professor	University of Leipzig, Germany	August 2011	HSS
44	Dr. Malini L Tantri	Assistant Professor	Institute for Social & Eco. Change, Bangalore	October 2011	HSS
45	Dr. Rajyashree Khushu-Lahiri	Associate Professor	IIT Kanpur	December 2011	HSS
46	Dr. Chakradhar Reddy	Assistant Professor	IISc, Bangalore	December 2011	EE
47	Dr. Aashia Rahman	Assistant Professor	IISc, Bangalore	December 2011	EE

NON-TEACHING STAFF

Sl.	Name	Designation	Department/ Section	Joining
1.	Sh. A. Palanivel	Registrar	Administration	July 2009
2.	Dr Dinesh K.S.	Deputy Librarian	Library	April 2010
3.	Sh. Ravinder Kumar	Deputy Registrar	Administration	January 2011
4.	Sh. Lagvish Kumar	Assistant Registrar	Administration	October 2009
5.	Mrs. Amrit Varsha	Jr. Supdt.	Dean Office	September 2010
6.	Mrs. Amrita Choudhary	Sr. Lib. Info. Assistant	Library	September 2010
7.	Sh. Tarvinder Singh Handa	Sr. Lib. Info. Assistant	Library	September 2010
8.	Sh. Rajpreet Singh	Jr. Assistant (Steno)	Establishment Section	August 2009
9.	Ms. Poonam Tiwari	Jr. Assistant (Steno)	Registrar Office	December 2009
10.	Sh. Anshu Vaid	Jr. Assistant	Academic Section	October 2009
11.	Sh. Gurdeep Singh	Jr. Assistant	Academic Section	September 2010
12.	Sh. Kaushal Kishore Jha	Jr. Assistant	Store & Purchase Section	September 2010
13.	Sh. Charanjit Singh	Jr. Assistant	Establishment Section	September 2010
14	Sh. Rajiv Kumar	Jr. Lab. Assistant	Mechanical Lab.	May 2010
15.	Sh. Ashu Kaushik	Jr. Lab. Assistant	Computer Lab.	May 2010
16.	Sh. Ram Kumar	Jr. Attendant (Semi-skilled)	Mechanical Lab.	September 2009
17.	Sh. Karan Singh	Jr. Attendant (Semi-skilled)	Mechanical Lab.	September 2009

RESEARCH PUBLICATION - FACULTY

Research papers (Journals and anthologies)

M.K. SURAPPA

1) Adamane R. Anilchandra, Ritwik Basu, Indradev Samajdar and Mirle K. Surappa Microstructure and compression behavior of chip consolidated magnesium. Journal of Materials Research, Available on CJO doi:10.1557/jmr.2011.411
2) R.C. Shivamurthy and M. K. Surappa (2011). "Tribological Characters of A356 Al Alloy-SiCp Composite Discs". WEAR, Vol. 271, 1946-1950.

US Patent with application no. US 2011/0315920Al on "A process for preparation of nano ceramic- metal matrix composites and apparatus thereof" has been filed. Inventors: M.K.Surappa, Sudarshan and R.Raj.

ABHIJIT GOSWAMI

1) J. I. Watanabe, Y. Ki. Sugiyama, A. Nomura, S. Azumatei, A. Goswami, N. Saino, S. Okamoto, "Quick Access to Diverse Polymerizable Molecules (a Monomer Library) by Catalytic [2+2+2] Cycloaddition Reactions of Functionalized Alkynes", Macromolecules, 2010, 43, 2213-2218.

ANUPAM AGARWAL

1) Agrawal, A., Ziegert, J., Smith, S., Woody, B., Cao, J., Comparison of Dimensional Repeatability of Deformation Machined Components with Sheet Metal Components, Transactions of NAMRI/SME, Volume 38, 2010, Pages 571-576.

ASOKA BISWAS

1) Asoka Biswas, M. Shapiro, and P. Brumer, "Overlapping resonances in the resistance of superposition states to decoherence", J. Chem. Phys. 133, 014103 (2010).

HARPREET SINGH

1) Kaur, M., Singh, H. and Prakash, S., (2011), "Surface Engineering Analysis of Detonation-gun Sprayed Cr3C2-NiCr Coating under High-Temperature Oxidation and Oxidation-Erosion Environments", Surf. Coat. Technol., Vol. 206, pp. 530–541.
2) Kaushal, G., Singh, H. and Prakash, S., (2011), "High Temperature Erosion-Corrosion Performance of HVOF sprayed Ni-20 Cr coating in Actual Boiler Environment", Metall. Mater. Trans. A, Vol. 42, pp. 1836-1846.
3) Singla, M. K., Singh, H. and Chawla, V., (2011), "Thermal Sprayed CNT Reinforced Nanocomposite Coatings – A Review", J. Minerals Mater. Charact. Eng., Vol. 10, No.8, pp.717-726.
4) Gill, S. S., Singh, J., Singh, R., and Singh, H., (2011), "Metallurgical Principles of Cryogenically Treated Tool Steels- A Review on Current State of Science", Inter. J. Advanced Manufacturing Technol., Vol. 54, Nos.1-4, pp. 59-82.
5) Arora, H.S., Bala, N. and Singh, H., (2010), "Wear Performance of Cold Spray Ni-20Cr Coating on T-22 and SA-516 Boiler Steels", J. Tribology Surf. Eng., Vol. 1, No. 3-4.

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6) Kaur, M., Singh, H., Singh, B. and Singh, B., (2010), "Studies on the Sliding Wear Performance of Plasma Spray Ni-20Cr and Ni3Al Coatings," J. Thermal Spray Technol., Vol. 19, Nos. 1-2, pp. 378-383.
7) Bala, N., Singh, H. and Prakash, S., (2010), "High Temperature Corrosion Behavior of Cold Spray Ni-20Cr Coating on Boiler Steel in Molten Salt Environment at 900 °C," J. Thermal Spray Technol., Vol. 19, Nos. 1-2, pp. 110-118.
8) Gill, S. S., Singh, J., Singh, H., and Singh, R., (2010), "Investigation on Wear Behaviour of Cryogenically Treated TiAlN Coated Tungsten Carbide Inserts in Turning", Inter. J. Machine Tools & Manufacture, 10.1016/j.ijmachtools.2010.10.003.
9) Gitanjali, Singh, H., Singh, S. and Prakash, S., (2010), "Effect of Superficially Applied Y2O3 Coating on High Temperature Corrosion Behaviour of Ni-Base Superalloys", Metall. Mater. Trans. A, Vol. 27, No.2, pp. 109-116.
10) Kaur, M., Singh, H. and Prakash, S., (2010), "Role of Detonation-Gun Spray Cr3C2-NiCr Coating in Improving High Temperature Corrosion Resistance of SAE-213-T22 and SAE-347H Steel in the Presence of Na2SO4-82%Fe2(SO4)3 Salt Deposits ", Surface Engineering, Vol. 26, No. 6, pp. 428-439.
11) Bala, N., Singh, H. and Prakash, S., (2010), "Accelerated Hot Corrosion Studies of Cold Spray Ni-50Cr Coating on Boiler Steels", Mater. Design, Vol. 31, pp. 244-253.
12) Gill, S. S., Singh, H., Singh, R. and Singh, J., (2010), "Cryoprocessing of Cutting Tool Materials-A Review", Int. J. Adv. Manuf. Technol., Vol. 48, No. 1–4, pp. 175–192.
13) Gill, S. S., Singh, R., Singh, H. and Singh, J., (2009), "Wear Behaviour of Cryogenically Treated Tungsten Carbide Inserts under Dry and Wet Turning Conditions", Inter. J. Machine Tools Manufacture, Vol. 49, No. 304, pp. 256-260.
14) Kaur, M., Singh, H. and Prakash, S., (2009), "High Temperature Corrosion Studies of HVOF Sprayed Cr3C2-NiCr Coating on SAE-347H Boiler Steel", J. Thermal Spray Technol., Vol. 18, No. 4, pp. 619-632.

HIMANSHU TYAGI

1) Otanicar, T. P., Phelan, P. E., Taylor, R. A., and Tyagi, H., "Spatially Varying Extinction Coefficient for Direct Absorption Solar Thermal Collector Optimization", ASME Journal of Solar Energy Engineering, Vol. 133(2), pp. 024501, May 2011.
2) Phelan, P. E., Gupta, Y., Tyagi, H., Prasher, R., Cattano, J., Michna, G., Zhou, R., Wen, J., Jensen, M., and Peles, Y. , "Energy Efficiency of Refrigeration Systems for High-Heat-flux Microelectronics", ASME Journal of Thermal Science & Engineering Applications, Vol. 2, pp. 031004, Sep 2010.
3) Tyagi, H., Phelan, P. E., and Prasher, R., "Predicted Efficiency of a Low-Temperature Nanofluid-Based Direct Absorption Solar Collector", ASME Journal of Solar Energy Engineering, Vol. 131(4), pp. 041004, Nov 2009.

JITENDRA PRASAD

1) Moustafa, A., Sugiyama, T., Prasad, J., Zaman, G., Gross, T. S., Lanyon, L. E. and Price, J. S., 2011, "Mechanical loading-related changes in osteocyte sclerostin expression in mice are more closely associated with the subsequent osteogenic response than the peak strains engendered," Osteoporosis International, Online First, 15 May, 2011

MANORANJAN MISHRA

1) Mishra, M. Trevelyan, P. M. J, Almarcha, C. and De Wit, A. (2010) Influence of double diffusive effect on miscible viscous fingering, Physical Review Letters, Vol. 105, 204501.
2) Maes, R., Rousseaux, G., Scheid, B., Mishra, M., Colinet, P. and De Wit, A. (2010) Experimental study of dispersion and miscible viscous fingering of initially circular samples in Hele-Shaw cells, Physics of Fluids 22, 123104 (2010).
3) Mishra, M., Martin, M. and De Wit, A. (2010) Influence of miscible viscous fingering with negative log-mobility ratio on spreading of adsorbed analytes, Chem. Engg. Sci. Vol 65 2392-2398.
4) Haddad, K., Ertunc, O., Mishra, M., and Delgado, A. (2010) Pulsating laminar fully developed channel and pipe flows, Phys Rev E. Vol. 81, 016303.

MALINI TANTRI

1) Tantri, Malini L. (2011). "Trade Performance of SEZs in India: A Disaggregated Level Analysis", Margin: The Journal of Applied Economic Research, Vol. 5 (2): 267-292
2) Tantri, Malini L. (2011) "The Dynamics of SEZs over EPZs: The Case Study of Santacruz SEZ". International Journal of Economics, Vol. 2 (1): 62-75

RAJENDRA SRIVASTAVA

1) Rajendra Srivastava, Anu Prathap M. U., Rajkumar Kore. "Morphologically controlled synthesis of copper oxides and their catalytic applications in the synthesis of propargylamine and oxidative degradation of methylene blue", Colloids and Surfaces A: Physicochem. Eng. Aspects 392 (2011) 271–282.
2) Rajkumar Kore, Biswarup Satpati, Rajendra Srivastava. "Synthesis of Dicationic Ionic Liquids and their Application in the preparation of Hierarchical Zeolite Beta", Chemistry A-European Journal 17 (2011) 14360-14365.
3) M.U. Anu Prathap, R. Srivastava, 'Synthesis of nanoporous metal oxides through the self-assembly of phloroglucinol–formaldehyde resol and tri-block copolymer', Journal of Colloid and Interface Science 358 (2011) 399-408.
4) R. Kore, R. Srivastava, "Synthesis and applications of highly efficient, reusable, sulfonic acid group functionalized Brönsted acidic ionic liquid catalysts", Catalysis Communications 12 (2011) 1420.
5) R. Kore, R. Srivastava, "Synthesis and applications of novel imidazole and benzimidazole based sulfonic acid group functionalized Bronsted acidic ionic liquid catalysts", Journal of Molecular Catalysis A: Chemical 345 (2011) 117.
6) M.U. Anu Prathap, R. Srivastava, "Morphological controlled synthesis of micro-/nano-polyaniline", Journal of Polymer Research 18 (2011) 2455-2467.

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7) R. Srivastava, "Assessment of the Catalytic Activities of Novel Brönsted Acidic Ionic Liquid Catalysts", Catalysis Letters 139 (2010) 17–25.
8) R. Srivastava, "Eco-friendly and morphologically controlled synthesis of porous CeO2 microstructure and its application in water purification", Journal Colloidal and Interface Science 348 (2010) 600-607.

RAMJEE REPAKA

1) Ramjee Repaka and V. V. Satyamurty, "Limiting Nusselt Numbers for Viscous Dissipative Flow between Parallel Plates Kept at Unequal Temperatures", 37, 2010, p. 1251-1254, Int. Comm. in Heat and Mass Transfer.
2) V. V. Satyamurty and Ramjee Repaka, "Superposition Relations for Forced Convective Local Nusselt Numbers for Flow through Asymmetrically Heated Parallel Plate Channels", 32(6), 2011, p. 476-484, Heat Transfer Engineering.

RANO RINGO

1) Ringo, Rano. "Challenging the Discourse of the Empire: A Postcolonial Study of Margaret Laurence's The Diviners." Jodhpur Studies in English 9 (2011): 99-113.

SOMDEV KAR

BOOK

1) Kar, Somdev (2010). Syllable Structure of Bangla: An Optimality Theoretic Approach. Newcastle upon Tyne: Cambridge Scholars Publishing.

SUBASH CH. MARTHA

1) A. Chakrabarti and S. C. Martha, A review on the mathematical aspects of fluid flow problems in an infinite channel with arbitrary bottom topography, Journal of Applied Mathematics and Informatics, 29 (No. 5-6), 1583-1602 (2011)

S. S. GUPTA

1) Time-of-flight mass measurements for nuclear processes in neutron star crusts, A. Estrade et al., Phys. Rev. Lett. 107, 172503 (2011).

INVITED SEMINARS/SESSIONS CHAIRED

MANORANJAN MISHRA

- "Hydrodynamical instability in liquid chromatographic columns", 29th June 2011, at Department of Chemical Engineering, IIT Hyderabad, India.
- "Double diffusive viscous fingering instability", 30th November 2011, Biotechnology and Bioengineering Center, Medical College of Wisconsin, Milwaukee, USA.

SESSION CHAIRED

Chaired a session "Instability: Interfacial and Thin Film IV" at 63rd Annual Meeting of APS Division of Fluid Dynamics (DFD10), Long Beach, California, USA, November 21-23, 2010.

HARPREET SINGH

- Delivered an expert lecture on **"An Introduction to the Recent R&D Activities in Mechanical and Materials Engineering"** during Faculty Development Programme on "Advances in Materials and Manufacturing Technology" at Malout Institute of Management and Information Technology, Malout, India on July 19, 2011
- Delivered an expert talk on **"Recent R&D Activities in Mechanical Engineering"** during "National Conference on Advances in Mechanical Engineering (NCAME-2011)" at University Institute of Engineering and Technology, Punjab University, Chandigarh on May 21, 2011 and chaired one technical session
- Delivered a keynote address on **"Renewable Energy Potential"** during National Conference on "Advances in Renewable Energy Resources" at Indo-Global College of Engineering, Abhipur on April 29, 2011
- Delivered a keynote address on **"Advances in Mechanical Engineering"** during "National Seminar on Advances in Mechanical Engineering" at Institute of Engineering & Technology, Bhaddal, Ropar on April 26, 2011
- Delivered an invited lecture on **"Friction Stir Welding-Technology and Future Potential"** at Yadwindra College of Engineering, Talwandi Sabo, India on February 20, 2010
- Visiting faculty at Imperial College, London, UK under UKIERI Program from March 14-25, 2011

RAJENDRA SRIVASTAVA

- Delivered a talk on **"Synthesis and applications of task specific ionic liquid catalysis"** during the "Theme Meeting on "Room Temperature Ionic Liquids" at Institute of Chemical Technology (ICT), Mumbai on December 3, 2011.
- Delivered a talk on **"Green Chemistry"** in the "Science Congress" at Jawahar Navodaya Vidyalaya, Sandhuan, Punjab on November 17, 2010.
- Delivered a talk on **"Synthesis of nanoporous metal oxides"** during the 20th National symposium on Catalysis at IT Madras, India, December, 19-22, 2010.

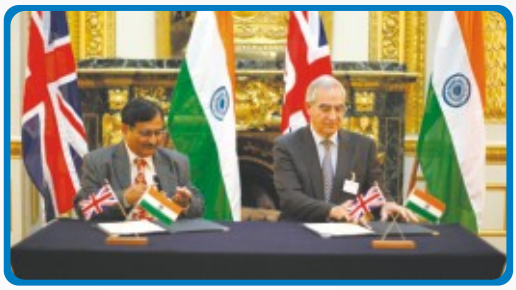
PUBLICATIONS BY LIBRARY STAFF

Book:

1. K.S, Dinesh, and Khaiser Nikam. Strategic Management of engineering college libraries in Karnataka. Saarbrücken, Germany: VDM Verlag Dr. Muller, 2011.

VISITORS TO IIT ROPAR

• Mr. Pat McFadden, Minister for Business, Innovation & Skills, UK	February 2010
• Delegates from Aston University, UK	April 2010
• Mr. S. C. Agrawal, Chief Secretary, Govt. of Punjab	April 2010
• Prof. (Dr.) Jurgen Leh Mano, President, HoF University of Applied Sciences, Germany	July 2010
• Dr. Daniel Werner, Bavarian-India Centre, Germany	July 2010
• Second Secretary of U.K. Embassy, Delhi	September 2010
• Prof. Pardeep K. Rohatgi, Director, UWM Centre for Composites and Advanced Materials Manufacture, University of Wisconsin, USA	January 2011
• Prof. Robert Berry, Executive Dean, School of Engineering & Applied Science, Aston University, UK	February 2011
• Prof. David McPhail, Imperial College, London	November 2011
• Prof. Andrew Petter, President & Vice Chancellor, Simon Fraser University, Canada	November 2011
• Dr. B. Mario Pinto, Vice President (Research) and Professor of Chemistry Simon Fraser University, Canada	November 2011
• Dr. Nimal Rajapakse, Dean & Professor, Applied Sciences Simon Fraser University, Canada	November 2011



MOU with UK Universities (2010)

With the delegates from Simon Fraser University (2011)

RURAL TECHNOLOGY ACTION GROUP (RuTAG) CENTRE

A Rural Technology Action Group (RuTAG) Centre has been set-up in the institute under the aegis of the office of Principal Scientific Adviser (PSA) to the Government of India. IIT Ropar is the first among new IITs to have this centre. Hon'ble Dr. R. Chidambaram, Principal Scientific Adviser to the Government of India inaugurated this centre in the institute on May 3-4, 2011. RuTAG is a mission conceptualized, initiated and sponsored by the Principal Scientific Adviser (PSA) to the Government of India. The main focus of the centre shall be the development and dissemination of technologies for rural development. It is an entirely S&T NGO based initiative, which also works for skill up-gradation through specialized training for rural folks. The centre shall have strong linkages with State Government, R&D Laboratories, Educational Institutions and Corporate Sector/ Industry to develop technologies for the rural folks. Some very innovative technology upgradation projects have been successfully implemented by the RuTAG centres already working in old IITs.

RESEARCH PROJECTS (COMPLETED/IN PROGRESS)

ASOKA BISWAS
- Detection of entanglement in many-spin systems by spin-spin correlations, Funded by DST (Fast Track Scheme), Govt. of India, 11.64 lakhs, 2010-2013

AVIJIT GOSWAMI
- Design and Syntheses of A New Class of Salen based Metal Complexes: A Search for Catalytic Activities, Funded by CSIR, 18 Lakhs, 2011-2013, Co-PI: Narinder Singh

DHILIP KUMAR T. J.
- H2 storage and fuel cell materials for renewable energy: Fundamental study on metal hybrid nanostructures, Funded by DST (Fast Track Scheme), Govt. of India, 17 lakhs, 2011-2014

DAYA GAUR
- Approximation Algorithms for NP-hard optimization problems, Funded by DST (SERC), 34.29 lakhs, 2011-14

HARPREET SINGH
- Surface Engineering to control erosion-corrosion of steam generating plants by nano particle coatings, Funded by DST (SERC), 42.5 lakhs, 2010-13
- Development of Magnesium alloy based in-situ nano composites for improved material properties using friction stir processing, Funded by DRDO, 14.1 lakhs, 2011-13

MANORANJAN MISHRA
- Modeling and simulation of various fingering instability between two miscible fluids in liquid chromatographic condition, Funded by DST, 15.96 lakhs, 2011-14

NARINDER SINGH
- Synthesis of Au(I) complexes Luminescent Based Benzimidazole, Pyridyl and Amine: Gold Nano-Particles for sensor development, Funded by DST (Indo-Mexican), 13.46 lakhs, 2011-14
- Design and synthesis of Quantum dot-based benzimidazole-compled chemosensors, Funded by DST (Indo-Korean), 7.65 lakhs, 2011-14
- Design and synthesis of new ratiomertic fluorescent chemo-sensors: excited state proton transfer involving keto-enol tautomerism, Funded by CSIR, 15 lakhs, 2010-13
- Surface engineering to control erosion-corrosion of steam generating plants by nano-particle coatings, Funded by DST, 42 lakhs, 2009-12

P. K. RAINA
- Theoretical and Experimental investigation of a possibility to use Sn-124 in modren double beta decay experiments, Funded by DST, 16.05 lakhs, 2010-12

PRABAL BANERJEE
- Development of [3+3]-cycloaddition of Azomethine Ylide towards the Construction of Piperidine Ring System: Application to the Alkaloids Synthesis, Funded by DST (Fast Track Scheme), Govt. Of India, 19.25 lakhs, 2011-2014

RAJENDRA SRIVASTAVA
- Synthesis and catalytic applications of hierarchical/nano crystalline zeolite catalysts, Funded by DST (SERC), 33.51 lakhs, 2010-13
- Synthesis and catalytic applications of nanoporous π-conjugated polymer-silica nanocomposite materials, Funded by CSIR, 18 lakhs, 2011-14

ZEITGEIST 2010

The young creative minds of the budding new IIT Ropar started its first-ever cultural festival- Zeitgeist, the spirit of the times. This German name, adopted after several brainstorming sessions, completely reflected the soul of this fest and captured its true spirit. Starting on September 23, 2010, it extended for a duration of three days. Zeitgeist'10 was a great success and became a mark of pride and glory for IIT Ropar. The festival started with lighting of the lamp of learning by honorable Late Dr. Atanjit Singh, famous Punjabi writer and poet, honorable Prof. M. K. Surappa, Director of IIT Ropar and honorable Dr. Harpreet Singh, Chairman, Board of Cultural activities in the presence of officials from sponsoring organizations, participants, all the faculties and students of IIT Ropar and other guests. This was followed by a melodious performance by Rebab maestro Mr. Anmol Singh and a spectacular Kathak performance by SPIC MACAY invitee Monisha Naik. The evening finally attained a cultural aura with the IIT Ropar girls' special gidda that filled the entire auditorium with the colours of Punjabi culture. The festival showcased events ranging from the cultural to the technical. A special entrepreneurship workshop was held by Nurture Talent Academy to give orientation and initiation about entrepreneurship as well as to provide knowledge of fundamental concepts to start a business. The main highlights of the festival were Glitz (fashion parade), Tarang (group dance), Torque (rock competition), Yatharth (theatre) and Conclave(open debate). Apart from these there were several events like English and Hindi JAM, Crosswars- English debate competition and Virudh- Hindi debate competition to brush up the oratorical skills. While Saaz aimed to promote young euphonious singers, Smack that introduced freestyle dancing with all the punk and chutzpah to the spectators. Events like War of DJs, War of Rappers, Treasure Hunt, Tambola, photography and gaming zone entertained the jubilant participants during the entire period. It was concluded by a performance by the renowned band from the entertainment world- Faridkot. It left the audience spell-bound. The fest also provided a peek into the philanthropic side of IITians which found expression in 'Sparsh'—an initiative to work with Theatre Age, Chandigarh, founded by Zulfiqar Khan, for upliftment of slum children. A group of students from IIT Ropar spent a few hours with the students of Theatre Age. The festival saw participation from institutes like IIT Delhi, IIT Roorkee, BITS Pilani, IIT Mandi and several renowned colleges of Chandigarh. The programme was sponsored by a group of business houses like Hero Honda, BSNL, T.I.M.E., Godrej, ACC limited and ICON with co-sponsors GAIL (India), DesignTech, Desein, Techniqueindia, National Instruments, NTPC, Allahabad Bank, IFFCO, IFFDC and Adani. The media partners were The Tribune, UTV Bindass and Knowafest.com. The three day long cultural festival finally brought the enthusiasm and dedication of IIT Ropar's student community into the spotlight. At the end of the cultural festival, everyone looked forward to its return in 2011 with greater vigour, spirit as well as participation.

Asmita Singh (B.Tech – EE, 3rd Year)

ZEITGEIST 2011

It's been four years since IIT Ropar's birth and the students of this young institute haven't made any delay in nurturing its culture. Zeitgeist – the spirit of times, the annual culture festival of IIT Ropar has clearly stood out and hasn't failed to enthral. Zeitgeist- the spirit of times is not a mere cultural festival of IIT Ropar but is a spell that casts upon us an eternal veil of fun and frolic. Zeitgeist conjures out an ambience of thrill, a world of its own where the lights dance on the beats, the trees sway on the hymns zeitgeist makes each breath you take unforgettable; it's ineffable. Zeitgeist11 was not just any other festival but was an event brimmed with multitude of events. Centred on retro theme; this event took everyone back in time. A vintage environment was seen on the streets of IIT Ropar as if saying its motto- "Retro never Dies". For some it was an event to gain new insights, for some it was a platform to prove themselves and for some it was a fiesta more enjoyable than anything else. The festival kicked off with the blessings from the institute's director Dr. M.K. Surappa. This was followed by a splendid performance by THEATERAGE- a social organization that works for poor and underprivileged children. The organization takes immense care of these children and even trains them for stage plays. IIT Ropar was happy to have a look at the utmost philanthropic efforts of this organization. Zeitgeist 11 was held for two days; two days full of excitement and zeal as never seen before. The fete hosted several events of various kinds ranging from dancing, singing, gaming, debating, treasure hunting and much more. The literary events focussed on debating on various current issues and gave the young orators a chance to mesmerize the audience. Then there were other events like "spin a yarn"-a popular story telling event and extempore. Young singers and dancers from various colleges all over the nation used Zeitgeist' 11as the podium where they could entertain people and they surely did. The festival also had street plays popularly known as "Nukkad Natak" which critically presented the contemporary issues in a new fashion. These two days were host of innumerable fun activities ranging from mind boggling treasure hunt to other light games. Though this cultural event had a retro theme; it didn't mean there wasn't a place for tech-lovers. Workshops were held on current technology and hardcore gaming tournament was held between various teams. The two nights saw magnificent performances by well-known Punjabi singer "Alfaaz" and rock band "BANDISH".

Aditya Khokhar (B.Tech – ME, 3rd Year)
Arun Singh (B.Tech – EE, 3rd Year)

NATIONAL SERVICE SCHEME (NSS)

With the goal to work for the betterment of society and instill the spirit of social service among the young students, IIT Ropar established NSS at institute level, headed by Faculty in Charge, IIT Ropar. Currently, NSS, IIT Ropar has over 100 active members from different disciplines, working rigorously for community health care, literacy drives, and environmental protection. Blood donation camps, informative lecture on human values are organized regularly. The aim of the organization is to produce engineers, who are socially responsible, and work for the development of nation.

BLOOD DONATION CAMP

A Blood Donation Camp was organized by the NSS Unit of Indian Institute of Technology, Ropar through the Civil Hospital Blood Bank Ropar, as a part of the one day NSS Camp. Deputy Commissioner of Ropar Mr. G. K. Singh (I.A.S.) had inaugurated the camp and awarded certificates to the star blood donors. Rotary club members have sponsored the refreshments to the blood donors and actively supported the event. Blood Donation Camp is carried out every year and is one of the most important social activities carried out by the NSS unit of IIT Ropar. This time 67 units of blood were donated by the students, staff and the faculty members of IIT Ropar. Besides the blood donation camp NSS is active in the institute throughout the year.

Blood Donation Camp-2011

NATIONAL CADET CORPS (NCC)

The National Cadet Corps plays a significant part in moulding a person's character. It fosters the spirit of teamwork and man-management and leads to the development of a more pleasing overall personality.

Thus NCC strives to achieve the following objectives:

- To channelize the energy and dynamism of young men towards activities beneficial to them and to the society.
- Constructive use of leisure time, wholesome recreation, wide cultural sympathies, abiding social consciousness and an alert mind.

Recognizing the importance of the NCC, the Institute offers the students an opportunity to be part of the NCC. The Institute cadets are part of the 3 Punjab (I) Coy of the NCC. Parades are regularly held to train the cadets in foot drill and command, weapon training, field craft, civil defense, map reading etc.

INDEPENDENCE DAY

The Independence Day at IIT Ropar was an event that stirred up the patriotic feelings of everyone present on the occasion. The Registrar hoisted the flag and delivered a speech exhorting students to take India as a bright future and the day was also commemorated by the rendition of patriotic songs by the students and the delivery of speeches by faculty members.

REPUBLIC DAY

The Republic Day was marked by the unfurling of the national flag by the Director. In his speech The Director mentioned the significance of the day to students and staff. Students, faculty and staff gathered on the occasion and celebrated the day with gusto and a determination to take IIT Ropar to newer heights.

Republic Day-2011

DIWALI

Diwali, the festival of lights, was celebrated with great joy, fun and fervour at IIT Ropar. Students gave a tough competition to one another in the Inter Hostel Rangoli competition. Special dinner was arranged for the students. Faculty members along with their families intermingled the students. The ambience was one of camaraderie and celebration.

Diwali-2009

SPORTS FACILITIES

Presently, IIT Ropar has one cricket field, three cricket practise pitches, three clay tennis courts, two volleyball courts, a football field, a hockey field, a gymnasium, two table tennis tables, a basket ball court, a badminton court and a ground for different athletic events. Adequet sets of sports equipment have also been provided to the students and staff in the IIT Ropar transit campus.

HOSTELS

The Institute campus houses four hostels, namely, Mercury House (Wings A and B), Jupiter House, Neptune House and Venus House, former three for boys and latter one for girls. The hostels are well equipped for comfortable lodging and boarding of approximately 600 students. All hostels are provided with water coolers and RO systems (on each fllor). Each hostel has a common room that provides facilities for indoor recreation and games. The hostel complex also includes four shops that cater to the basic needs of the residents, and also washing machine facilities. High speed internet in hostels is available via LAN connections, in addition to thewireless internet. The day-to-day management of hostels is taken care of by a committee consisting of student representatives, faculty members and administrative staff. Each hostel has a warden, who are assisted by Office Assistants and Caretakers in guiding the students to manage the affairs of the hostels.

Mercury House

Venus House

MEDICAL CENTRE

The institute has allocated a separate building, which adjoins one of the hostel complexes, for its medical facility. A well qualified doctor and a nurse have been appointed to attend to medical emergencies of the campus residents. A homeopath doctor and a farmacist (night service) are also part of the medical facilties provided in the transit campus. In addition, the institute relies upon a few super-speciality hospitals in the city of Ropar and Chandigarh for providing medical care to its students and staff. Vehicles are available for emergency transportation to nearest hospitals.

CENTRAL LIBRARY

The growing collection which binds the user with the library comprises of various kinds of books viz., textbooks, reference works, dictionaries, handbooks, encyclopaedias, reports, atlases etc. in print as well as electronic form; e-journals, CDs/ DVDs of various information resources etc. Presently the library houses around 8000 books covering all the disciplines of interest in the Institute. The library operations are automated using "Libsys" library management software. The library Online Public Access Catalogue (OPAC) enables user to search documents in the possession of the library. OPAC also enables library users know their checkout status, issue history. Users can browse for new additions of books; journals subscribed and also place online reservations. Keeping in mind the duty to disseminate knowledge in our national language, we are building a collection of books written in Hindi language as well. The library facilitates access to electronic journals through its participation in various consortia such as INDEST-AICTE and UGC-INFLIBNET. The library also subscribes to several e-journals directly from publishers as well as through reputed subscription agencies. The library provides access to scholarly journals of world-known publishers such as ACM Digital Library, American Chemical Society (ACS), American Institute of Physics (AIP), American Nuclear Society (ANS), Annual Reviews, American Physical Society (APS), ASME Digital Library, ASTM Standards and Digital Library, Cambridge University Press (CUP), Euclid Prime Journals, IEL Online, IOP Science, JSTOR, Nature, OSA (Optical Society of America) Online, Project Muse, Royal Society Journals, Oxford University Press (OUP), Science Direct, Science Online, SIAM Online, Springer Online, Taylor & Francis, Wiley-Blackwell, World Scientific, etc. The library also provides access to bibliographical databases viz., Scopus, Web of Science and MathSciNet.

EXISTING LABORATORIES

Department of Chemistry
1. Chemistry Undergraduate Laboratory
2. Chemistry Postgraduate Laboratory

Department of Computer Science & Engineering
1. Software System Laboratory
2. Computing Laboratory

Department of Electrical Engineering
1. Electrical Engineering Laboratory
2. Electrical Machines Laboratory
3. Embedded Systems Laboratory
4. Power and Energy Computation Laboratory
5. Electromagnetic Laboratory
6. Communication Laboratory

Department of Humanities & Social Sciences
1. Language and Linguistics Laboratory

Department of Physics
1. Physics Undergraduate Laboratory
2. Scanning Probe Microscopy Laboratory

School of Mechanical, Materials & Energy Engineering
1. Design Laboratory
2. Vibration Laboratory
3. Material Science and Engineering Laboratory
4. SEM Laboratory
5. XRD Laboratory
6. Thermal Fluid Laboratory
7. Product Design and Realization Workshop, Laboratory, and Computer Laboratory
8. Control Engineering Laboratory
9. Tribology Laboratory
10. Sustainable Manufacturing Laboratory

Machine Design Laboratory

Computing Laboratory

SPORTS ACHIEVEMENTS

45th Inter IIT Sports Meet

A contingent of about 70 players and athletes represented IIT Ropar at the 45th Inter IIT Sports Meet held at IIT Kanpur during Dec 2009. One of the students of IIT Ropar (Mr. Amandeep Kamboj) won a silver medal in weightlifting event in the Under-62kg category and another student (Mr. Naveen Kumar) win the 'Best Physique award'.

46th Inter IIT Sports Meet

A contingent of 85 players and athletes represented IIT Ropar at the 46th Inter IIT Sports Meet held at IIT Delhi during Dec 2010. One of the students of IIT Ropar (Mr. Naveen Kumar) won a bronze medal in weightlifting event in the Under-77kg category. He was also awarded 2nd position in the 'Mr. IIT' competition.

47th Inter IIT Sports Meet

The 47th Inter IIT Students Sports Meet was held at IIT Kharagpur from Dec 12th to Dec 19th, 2011. A contingent of about 85 students (both boys and girls) was led by Dr. Himanshu Tyagi from IIT Ropar to participate in this meet. Many contestants have won in preliminary rounds in various events. Mr. Lalit Aggarwal (B.Tech 3rd year, Mechanical Engineering student) won the 3rd position in Mr. IIT (Best Physique) competition. Following the student's events, IIT Kharagpur also hosted the 19th Inter IIT Staff Sports Meet in which Mr. Ram Kumar (Junior Attendant, SMMEE) won the bronze medal in the hammer-throw event.

Inter IIT Sports Meet at IIT Kharagpur (2011)

INDIAN INSTITUTE OF TECHNOLOGY ROPAR

Semester Schedule for 2nd Semester of AY 2011-2012

Registration	Jan 03 (Tue)
Commencement of classes	Jan 04(Wed)
Last date for course ADD/DROP	**Jan 11(Wed)**
Late registration and finalization of registration	**Jan 11(Wed)**
Last date for adding courses in lieu of courses dropped on Jan 11, 2012 by UG section	Jan 16(Mon)
MID SEMESTER EXAMINATION	**Feb 23(Thu) –Feb25(Sat)**
Last date for return of marked answer scripts of mid semester examination	March 01(Thu)
Last date for AUDIT and WITHDRAWAL	**March 05(Mon)**
Last date for getting Mid - semester course evaluation form filled	March 05(Mon)
Mid- term evaluation of projects	March 09(Fri) – March 10(Sat)
Last date for departments to float courses for next semester	March 09(Fri)
Course registration for next semester	March 28(Wed) – March30(Thu)
Last date for submission of project reports	March 29(Thu)
Project Viva – Voice	**April 07 (Sat) – April 09 (Mon)**
Last date for getting course evaluation forms filled	April 16 (Fri)
Last day of classes	April 20 (Fri)
MAJOR EXAMINATION	**April 23(Mon) – April 28 (Sat)**
Last date for grades to reach UG section	May 04 (Fri)
Summer vacation starts	May 04 (Fri)
Display of grades by UG Section	May 14 (Mon)
Summer vacation ends	July 20 (Fri)

Existing Departments/Schools

- Department of Chemistry
- Department of Computer Science and Engineering
- Department of Electrical Engineering
- Department of Humanities and Social Sciences
- Department of Mathematics
- Department of Physics
- School of Mechanical, Materials and Energy Engineering

ACKNOWLEDGMENT

We thank all the faculty members, administrative staff and students of IIT Ropar for their help and cooperation in bringing out Prajwalam. Our special thanks to Mr. Prakhar Asthana (B.Tech – EE, 1st Year) for suggesting the name of this Newsletter.

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