DEPARTMENT OF CHEMISTRY

SEMINAR/CONFERENCES ATTENDED BY FACULTY

Details of conferences (National/ international) attended

(i) National Symposium on Green Chemistry: Applications in Science & Engineering on

March 29-30, 2007 at SLIET, Longowal (2007).

(i) *27th Annual Conference of Indian Council of Chemists held from December26-28* at Gurukal Kangri Vishwavidyalaya, Haridwar (2008*).*

(ii) National Symposium on Green Chemistry: Applications in Science & Engineering at Thapar University, Patiala on February 5-6, **2009**.

(iii) *12th Punjab Science Congress"* held at Punjab Agricultural University, Ludhiana on Feb. 7-9, 2009.

(iv) National Symposium on Emerging Trends in Chemical Analysis & Synthesis (ETCAS-09) held at SLIET, Longowal on March 12-13, **2009**.

(v) National seminar on Chemistry at Interfaces- Trends and Prespectives

(vi) National seminar on Green Chemistry for Sc. & Tech. (GCSE) March 28-29 2007

(vii) National seminar on Emerrrging trends in Chemical Analysis (ETCAS-09) In March 12-13 , 2009

(viii) National symposium on analytical science : Analytical innovations for process and technology Development IHBT Palampur.-2009

(ix) Biennial symposium on emerging trends in separation science and technology (SESTEC-2008)

(x) International conference on climate change biodiversity and food security in the south asian region EmCon,2007,YORK,U.K.

(xi) National Symposium in Emerging trends in chemical analysis and synthesis-ETCAS 2009

(xii) National Symposium on Green chemistry,GCSE-2007-Application in Science & Technology

(xiii) National Seminar on LSRP "Laser smart material and Radition Physics" 2006

(xiv) International seminar on computational drug discovery in pharma R & D held at Jaypee University Waknagat on Aug. 11, 2007.

(xv) International conference on "Molecules to Materials", ICMM-06, held during March, 3-4, 2006 at Sant Longowal Institute of Engineering & Technology, Longowal (Sangrur) Punjab

(xvi) National seminar on role of analytical instrumentation in Science and Technology. Nov. 16, 2005 at SLIET, Longowal (Sangrur)

(xvii) National symposium on recent advances in analytical sciences and applications. April 09-11, 2007 at H. P. University, Shimla

Research Papers in Referred Journals

1. Synthesis of hexahydro-1,3,5-triazines: A new approach from N-substituted-α-aminoisothiocyanates, Harish Kumar, Rita Goyal, Anupama Parmar and Sukhwinder Kaur, *Indian J. Chem.,* 45B(2): 552-57 **(2006).**
2. Microbial production, immobilization and applications of □-D-galactosidase, Parmjit S Panesar, Reeba Panesar, Ram S Singh, John F Kennedy. And Harish Kumar, *Journal of Chemical Technology & Biotechnology,* 81; 530-543 **(2006).**
3. Enzyme Catalyzed Regioselective Esterification/Trans-esterification of Sugars and Related Compounds, Anupama Parmar, Sukhwinder Kaur, Parmjit Singh, Harish Kumar, S.S. Marwaha & J.F. Kennedy, *Journal of Chemical Technology & Biotechnology,* 81; 866-876 **(2006).**
4. Trioctyle enhanced transport of lactic acid using emulsion liquid membrane, Avinash Thakur, Parmjit S Panesar and **Harish Kumar**, *JPAS*, 3(1/2), 33-40 **(2006).**
5. Biosurfactants: Properties and Applications, Parmjit S Panesar, Deepshikha Hasija, M. B. Bera and **Harish Kumar**, *JPAS*, 3(1/2), 41-49 **(2006).**
6. Iron (III) Perchlorate Adsorbed on Silica Gel: A Reagent for Organic Functional Group Transformations, Anupama Parmar and Harish Kumar, *Synth. Commun*., 37: 2301-2308 **(2007).**
7. Ultrasound Promoted $ZrCl_4$ Catalyzed Rapid Synthesis of Substituted 1,2,3,4-Tetrahydropyrimidine-2-ones in Solvent or Dry media, **Harish Kumar*** and Anupama Parmar, *Ultrasonic Sonochem.,* 15: 129-132 **(2008).**
8. Hydrolysis of Whey lactose using CTAB-premealibilized yeast cells, Gurpreet Kaur, P. S. Panesar, M. B. Bera and **Harish Kumar**, Bioprocess Biosyst Eng., 32: 63-67 **(2009).**
9. Ultrasound Promoted $Cu(Clo_4)_2$ Catalyzed Rapid Synthesis Of Substituted1,2,3,4-Tetrahydropyrimidine-2-Ones & Hantzsch 1,4-Dihydropyridines in Dry Media, Saurabh Puri, Balbir Kaur, Anupama Parmar and Harish Kumar, *Heterocyclic Communications,* 15 (1): (2009) **[In press].**
10. Ultrasound-promoted greener synthesis of 2H-chromen-2-ones catalyzed by Copper perchlorate in solventless media, Saurabh Puri, Balbir Kaur, Anupama Parmar and Harish Kumar, *Ultrasonic Sonochem.,* 16, 705-707 **(2009).**
11. p53-induced apoptosis and Inhibitors of p53, Surendra Kumar Nayak, Paramjit Singh Panesar and Harish Kumar[1*], *Curr. Med. Chem*., 16, 2627-2640 (**2009).**
12. Agricultural waste material as potential adsorbent for sequestering heavy metal ions from aqeous solutions-A Review, by Garima Mahajan , M.P.Kaur and and Dhiraj Sud, Bioresource Technology Vol &Year- 99(14) 6017-27 **2008.**
13. Removal of Cadmium (II) from aqueous solutions by adsorption on agricultural biomass, Umesh K.Garg,G.K.Jawa M.P.Kaur, V.K.Garg and Dhiraj Sud. J.Hazaradous materials, 154,1149-57**, 2008.**

14. Studies on TiO2/ZnO photocatalysed degradation of lignin, S.K.Kansal,Manohar Singh and Dhiraj Sud. J.Hazaradous materials,153,412-17**,2008.**
15. Effulent quality at Kraft /Soda agro-based papermills and its treatment using a heterogenous photocatalytic system, , by S.K.Kansal,Manohar Singh and Dhiraj Sud, Desalination, vol. & year-228,1-3,183-190**,2008.**
16. Optimization of Process Parameters for the Photocatalytic Degradation of2,4-Dichlorophenol in Aqueous Solutions, Sushil Kumar Kansal, Manohar Singh and Dhiraj Sud, Journal Of Chemical Reactor Engineering Volume 7 Article A**6 2009.**
17. Studies on photodegradation of Malachite green using TiO2/ZnO **photocatalyst**, Priti Bansal, Navneet Bhullar and Dhiraj Sud, Desalination and Water Today **2008**(accepted)
18. Removal of Hexavalent chromium from aqueous solutions by adsorption on treated sugarcane baggasse using response surface methodology, Umesh K.Garg,M.P.Kaur, V.K.Garg and Dhiraj Sud Desalination**2008** (accepted).
19. Optimization of photocatalytic process parameters for the degradation of 2,4,6- trichlorophenol in aqueous solutions, S.K.Kansal,Manohar Singh and Dhiraj Sud, Chemical Engineering communications (Taylor&Francis) 194,6,787-802, **2007**
20. Removal of Nickel(II) from aqueous solution by adsorption on agricultural waste biomass using a response surface methodological approach,Umesh K.Garg, M.P.Kaur, V.K.Garg and Dhiraj Sud, Bioresource Technology **2007**
21. Studies on photodegradation of two commercial dyes in aqueous phase using different photocatalysis, S.K.Kansal,Manohar Singh and Dhiraj Sud, J.Hazaradous materials 141,581-590,**2007.**
22. Removal of hexavalent chromium from aqueous solutions by sugarcane baggasse, Umesh K.Garg,M.P.Kaur,V.K.Gargand Dhiraj Sud, J.Hazardous materials, 140,60- 68,**2007**
23. Removal of Ni(II)ions from aqueous solutions by sugarcane baggasse, Umesh K.Garg, satnam Singh,M.P.Kaur,and Dhiraj Sud, Pollution research, 26(1),61-64**,2007**
24. Comparative evaluation of UV/solar light induced photodegradation of phenol in aqeous solutions, S.K.Kansal,Manohar Singh and Dhiraj Sud, Indian Chemical engineer, secB,47,2,111-14,**2006**.