

Dr. G. P. DESAI

Professor,

Department of Chemical Engineering,

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WORK EXPERIENCE: 32 YEARS

- Worked as a Production Chemist, in M/S Crop Development Cooperative Society Ltd., Hulkoti (A Pesticide formulation Unit), Gadag Dist., Karnataka, from 20-06-1988 to 04-08-1990 (Two years).
- Worked as lecturer in the Department of Chemical Engineering in Rural Engineering College, Hulkoti, Gadag Dist., Karnataka, from 06-08-1990 to 31-05-1995 (Five years).
- Worked as a lecturer in the Department of Chemical Engineering in Dayananda Sagar College of Engineering, Bangalore, from 02-06-1995 to 30-09-1995.
- Worked with M/S Shaku Chemo Tech Enterprises, Bangalore, on part time basis from 02-06-1995 to 30-11-1995.
- Worked as Production Manager in M/S Crop Development Cooperative Society Ltd., Hulkoti (A Pesticide formulation Unit), Gadag Dist., Karnataka, from 01-12-1995 to 03-10-1997 (Two years).
- Worked as Lecturer, Senior Lecturer and Assistant Professor in the Department of Chemical Engineering in Bapuji Institute of Engineering and Technology, Davangere, since 04-10-1997.
- Promoted as Associate Professor in Chemical Engg Department of Bapuji Institute of Engineering and Technology, Davangere from September 2012 to 31-06-2015.
- Promoted as in-charge head of department of Chemical Engineering, Bapuji Institute of Engineering and Technology, Davangere, from 01-07-2015 to 10-05-2020.

EDUCATIONAL QUALIFICATION:

- Ph.D [Environmental Science] from Kuvempu University, 2006.
- M.E [Chemical Engineering] with First Class from Karnataka University, Dharwad, 1992.
- B.E [Chemical Engineering] with First Class from Karnataka University, Dharwad, 1988.

DISSERTATION DETAILS:

Ph.D:

Title of Topic: Defluoridation of Drinking Water

Studied various adsorbents which are locally available and cheap. Conducted several static and dynamic study experiments. Experiments were carried out for determining the effects of various parameters such as Initial Fluoride Concentration, pH, TDS, Contact Time, Stirring Rates, etc, on Fluoride removal. Developed mathematical models for predicting effects. Designed an adsorber and fabricated. Tested the performance of adsorber.

ROLES AND RESPONSIBILITIES:

- Convener for DAVANA-VTU Youth festival 2014.
- Member and chairman of BOE, BOS
- Research Guide in Chemical Engg. Research Centre
- Dean Public Relations and Placement cell, B.I.E.T, Davangere.

AWARDS:

- Recipient of Best Teacher Award of the Bapuji Institute of Engineering and Technology, Davangere for the year 2007, 2008 and 2009.

MEMBERSHIP:

- Chairman, BOS in Chemical Engineering & PST, VTU Belgaum for the year 2016-19.
- Member, PhD/MSc (Engg.) registration expert committee of VTU for the year 2016-17
- Executive Council Member of Institution of Engineers (I), Davangere Local Centre and Member of Institution of Engineers (India), No. LM M130920-4

- Member, District Expert Appraisal Committee (DEAC), Davangere, for Environmental Clearance, Ministry of Environment and Forest, Government of Karnataka.
- Ex-Member of Board of Studies in Chemical Engineering of Karnataka University, Dharwad.
- Was a member of Board of Examiners in Chemical Engineering of Kuvempu University for the academic years 2000-01 & 2001-02 and Chairman, BOE, in Chemical Engineering, Kuvempu University, for the year 2002.
- Was a member of Board of Examiners in Chemical Engineering of Visvesvaraya Technological University, Belgaum for the year 2005-06 and 2006-07 and Chairman for BOE during the years 2010-11 and 2013-14.
- Member of Board of Studies, SDM College of Engineering and Technology, Dharwad for the year 2006-07 and SJCE, Mysore during the year 2012-13.
- Member of Indian Council of Chemists, No. LF 859.
- Member of Indian Society for Technical Education, No. LM 28162.
- Member of Indian Society of Analytical Scientists, No. LM 875.
- Member of Institution of Engineers (India), No. LM M130920-4.

CORE SUBJECTS TAUGHT:

- Computer Applications & modeling, Computational Methods, Heat Transfer, Momentum Transfer, Material Science, Environmental Engineering, Process Engineering Economics, Petroleum Refinery Engg.

EXPERT LECTURES DELIVERED:

- Delivered an Invited Talk at “Techniques in Biotechnology, Hands-on Workshop conducted at BIET, Davangere on 19th to 24th January 2015.
- Delivered an invited talk at VTU-VGST Sponsored Faculty Development Programme on Sustainable Development Through Sugar Industries conducted at M/S. Shamanur Sugars Limited, Duggavathi on 30th July 2013
- Was a resource person for UGC sponsored two day National Seminar on “Water-Environment and Economic Development”, conducted at Government First Grade College, Davangere on 15th & 16th February 2013.

- Chief Resource Person for National Seminar on “Future Trends in Biotechnology”, conducted at Bellary Engineering College, Bellary, Karnataka, on March 17-18, 2008.
- As an invited speaker taught the subject “Economics and Plant Design”, at Basavesvara College of Engineering, Bagalkot from 5th to 7th May 2007
- Delivered an Invited talk on “Defluoridation of Water at UGC sponsored refresher course held at Kuvempu University, Shimoga on 01-12-2006.
- Delivered an Invited Talk at Two Day’s workshop on “Environmental Issues in Technical Education”, conducted at STJ Institute of Technology, Ranebennur, on 30th and 31st March 1999.
- Delivered an Invited talk at Technology Barrier Reduction Program conducted at BIET for High School Students.
- Delivered an Invited Talk at “Techniques in Biotechnology, Hands-on Workshop conducted at BIET, Davangere on 19th to 24th January 2015.
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- Delivered an Invited talk at Technology Barrier Reduction Program conducted at BIET for High School Students.

SEMINARS/WORKSHOPS/EVENTS ORGANIZED:

- Organized National Seminar for Students of Chemical Engineering in the department, “Chemexcel” for the last 17 years.
- Organized a National Workshop on “Vermicompost” on 23rd and 24th December 2009.

SEMINAR/ WORKSHOPS ATTENDED:

- Attended two day workshop on Thermodynamics on 20th and 21st, Feb, 2004 conducted at BIET, Davangere.
- Attended a two day National Seminar on Role of Chemistry in Emerging areas of Applied Sciences, at S.V. University, Tirupati, on 15-17, March 2004, conducted by Indian Society for Analytical Scientists.
- Attended a one day workshop on “Water and Waste Water management in Urban Areas”, on 18th June 2004, at BIET, Davangere.
- Attended a National Conference on Environmental Pollution, Control and Repercussions at UBDTCE, Davangere on 4th and 5th of October 2004.
- Attended a one day Regional Conference of Indian Council of Chemists, conducted at Nagarjuna University P.G.Center, at Nuzvid, on 23rd January 2005.
- Attended a one day Seminar on Opportunities of Chemical Engineers in Karnataka, Conducted by Indian Institute of Chemical Engineers at MSRIT, Bangalore on 16th April 2005.
- Attended work shop on “Chemical application modeling” at Dayananda Sagar College of Engineering, Bangalore, on 10-10-2005.
- Attended National Conference on Nano-biotechnology, conducted at “SS Institute of Medical Science”, Davangere on 28-30th November 2009.
- Attended UGC sponsored National Conference on “Recent Trends in Analytical Techniques, Conducted at DRM Science College, Davangere, on 19th February 2011.
- Attended VTU-VGST Faculty Development Programme on “Sustainable Development through Sugar Industries” from 28th to 31st July 2013 at M/S Shamanur Sugars Ltd., Duggavathi, Davangere.

- Attended a QIP-Course on “Electro Chemical Techniques, Principles and Practice”, at Indian Institute Technology, Bombay, Mumbai, during 11-16th May 1998.
- Attended a QIP-Course on “Interfacial and Colloidal Phenomena”, at Indian Institute of Science, Bangalore during 21st -25th Feb 2000
- Attended a QIP course in “Computer Oriented Numerical Analysis”, at Indian Institute of Science, Bangalore, from 16-09-2002 to 20-09-2002.
- Attended a short term training program on “Recent trends in Analytical Instrumentation”, at B.I.E.T., Davangere, from 30-08-2004 to 04-09-2004.
- Attended an SERC school on “Modeling and Simulation of Chemical reactors”, at IIT, Bombay, from 02-05-2005 to 07-05-2005.
- Attended a STTP on “Environmental Impact Assessment: Guidelines and Procedures”, conducted at IIT Madras, on 19-24, July 2010.

PUBLICATIONS:

- Published a paper on “Nitrate and Fluoride levels of ground waters of Davangere Taluk”, in Indian J. of Envi. Hlth., in April 2003.
- Published paper titled “Production of renewable and Sustainable fuel from Calliandra calothyrsus and its utilization in compression ignition engines”, International Journal of Sustainable Engineering, June 2013, pp.1-14.
- Published paper titled “Synthesis, Spectral, Magnetic and Antibacterial Properties of Copper Complexes of Quaternary and Tertiary N-Donor Ligands”. Asian Journal of Chemistry, Vol. 20, No 7(2008), 5259-5266.
- Published paper titled “Urban Air pollution Trend in India- Present Scenario”, IJIRSET, Vol.2, Issue 8, Aug 2013, pp. 3738-3747.
- Published paper titled “Effect of Hydrothermal Explosion pretreatment on the composition and structure of Calliandra calothyrsus shrub- a lignocellulosic biomass”, International Journal of Renewable and sustainable energy, Vol3, Issue 1, 2014, pp. 1-5.
- Presented a Paper on “Study of Water quality in Davangere Taluk Comprising of Urban and Rural Areas for domestic Utility”, at National Seminar on “Geological Aspects of Environment”, at Punjab University, on 11-13, February 1999.

- Presented a paper on “Defluoridation of Drinking water using Pyrolyzed corn cobs”, on March 12-13, 1999, at National Seminar on Water Resources Management for Sustainable Development”, at Sri Venkateshwara University, Tirupati.
- Presented a paper on” Chemical Quality of ground water in Davangere District of Karnataka”, at National Conference on “ Industry and Environment”, during 28-30, December 1999, at Y.L. College of Science, Karad, Maharashtra.
- Presented a paper on “Industry Institute interaction Services-Need of the hour”, at National Seminar on “Technical Education in new Millennium-management and Challenges”, at Osmania University, Hyderabad, on 12 & 13 , March 2000.
- Presented a Paper on “Assessment of Air Quality in Davangere and Harihar Towns of Karnataka”, at IXX Conference of Indian Council of Chemists, during November 27-29, 2000, at Kuvempu University, Shimoga.
- Presented a Paper on “Curriculum for Meeting the Challenges of Globalization”, at V State level ISTE Convention and National Seminar on “Role of Technical Education in Meeting the Challenges of Globalization”, at UBDTCE, Davangere during 12-13, Nov.02.
- Presented a paper on “Studies on accumulation of Fluoride and its Biochemical Effects on Agricultural crops in some fluoride affected villages of Davangere District, in Central part of Karnataka”, at 22nd Annual Conference of Indian Council of Chemists, held at IIT, Roorkee on 17th,18th and 19th of October 2003.
- Presented a paper on “Recovery of Wax from Press Mud of a Sugar Mill”, at the National Seminar on Role of Chemistry in the emerging areas of Applied Sciences, Held at S.V.University ,Tirupati , on 15-17, March 2004.
- Presented a paper on “Nutrient level in Ground Waters of Honnali taluk in Karnataka”, at the National Conference on Environmental Pollution, Control and Repercussions held on 4th and 5th of October 2004, at UBDTCE, Davangere.
- Presented a paper on “Low cost defluoridater for Removing Excess fluorides from Fluoride rich drinking water”, at 23rd Annual Conference of Indian Council of Chemists, held at K.C. College, Mumbai, from 29-31, October 2004.
- Presented a paper on “Effect of Fluoride ion concentration in Water, Surface Soils and Vegetables of three fluoride affected villages of Davangere district in southern Part of

India”, at the International Conference on Water and Hlth, at SJCE, Mysore on 22nd and 23rd, Jan 2005.

- Presented a paper on “Bio-films-Associated with Pharma. Water Systems”, at the International Conf. on Water and Hlth, at SJCE, Mysore on 22nd and 23rd , Jan. 2005.
- Presented a paper on “Low cost Adsorbents for removing excess fluorides from Fluoride rich drinking water “,at the Regional Conference of Indian Council of Chemists, held at Nagarjuna University, Nuzvid, A.P., on 23rd January 2005.
- Presented a paper on “ Fluoride Analysis- A review”, at the national seminar on “ Recent trends on Analytical Techniques in Monitoring the Environment “, held on October 19-21, 2005 at Department of Chemistry, D.A.R College, Nuzvid.
- Presented a paper on “Defluoridation of Water”, at National Conference on Environmental Management, at Jawaharlal Nehru Technological University, Hyderabad, on 28-30, October 2007.
- Presented a paper on “An Approach for Restoration of Lake Ecosystems- a Case Study of Kundawada Lake, Situated Near Davangere in Central Part of Karnataka”, at National Symposium on” Lake 2010: Wetlands, Biodiversity and Climate Change”, held at Indian Institute of Science, Bangalore on 22nd -24th December 2010.
- Presented Paper on “Restoration of Lakes in and around Davangere City situated in Central Part of Karnataka State in South India, was accepted for presentation at 28th International Symposium of the North American Lake Management Society (NALMS), conducted on November 11-14, 2008 at Edmonton AB, Canada.
- Paper entitled “An investigation on removal of fluorides from fluoride rich drinking water using low cost adsorbents” was accepted for presentation at 8th International congress of Environmental Research held at University of Applied Sciences, Luebeck,, Germany, on July 27-28, 2016.
- “Experimental Investigation of Thermal Conductivity and Specific heat and thermal degradation of vegetable oils for a range of temperatures” paper published in Research Journal of Chemical and Environmental Sciences, Vol. 4 [4S], 2016, pp. 107-111.
- “Chemical Analysis of Fluoride in Ground water of Hanumsagar Village using GIS”, IRJET, Vol.6, Issue: 7, July 2019, pp.3587-3592.

- Thermophysical Properties of Pongama Honge Oil Methyl Ester and Rubber Seed oil Methyl Ester for Wide Temperature Range, International Journal of Vehicle Structures and Systems, 11(4), 2019, 452-455. ISSN 0975-3540.

EXTRA/CO-CURRICULAR ACTIVITIES:

- Judge in National Seminar “Chemovation-2007”, for Simulation and Dynamics Session, conducted at Dayananda Sagar College of Engineering, Bangalore, on 10-03-2007.
- Co-Chairman for National Level Student symposium on Recent Advances in Biotechnology, conducted on November 16-17, 2007 at GM Institute of Technology, Davangere, Karnataka.
- Judge for technical paper presentation session for Chemical Engineering Section, at Technoscope, a state level symposium conducted at SDM college of Engineering and Technology, Dharwad, on 22nd April 2008.
- Judge for district level cultural festival “Youth festival” conducted on December 17-18, 2007.
- Was a chairman of Western competitions during the Sixth State level Youth festival of Vivesvaraya Technological University, conducted in BIET in the year 2004-05.
- Was involved in organizing a Six-day workshop on Consumer awareness and Welfare in the institute on 11-16, April 2005.
- Conducted Anthyakshari competition to the staff and families of BIET in November 2006.
- Is a coordinator for BIET, Cultural club