

CURRICULUM – VITAE

Dr. PRITPAL SINGH

(Ph.D. Chemistry, M.Phil., M. Sc.)

Mobile No: 08427000415

Email: dhillonps2003@gmail.com

Total Experience: - **26** years (12 years Teaching & 11 years Industry)



OBJECTIVE

To be a part of a reputed organization to work in a healthy & challenging environment, to create an equivalent working conditions for others and to make a constant endeavor to learn and contribute towards its development.

PROFESSIONAL DETAILS

(1) Working as Associate Professor and Head, Department of Chemistry with additional charge of Registrar, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India (29/10/2014 to till date)

Responsibilities accomplished/Undertaken

- a) Head, Department of Chemistry of the University
- b) Member, Syndicate, SGGSW University w.e.f. 01.09.2011 till date.
- c) Member, Academic Council, SGGSW University w.e.f. 01.09.2011 till date.
- d) Member, Senate, SGGSW University w.e.f. 01.09.2011 till date.
- e) Member, Finance Committee, SGGSW University w.e.f. 01.09.2011 till date.
- f) Member, Board of Studies in Chemistry of SGGSW University w.e.f. 03.03.2012 till date
- g) Member, Research Degree Committee in Chemistry of SGGSW University w.e.f. 03.03.2012 till date
- h) Member, Research Degree Board of SGGSW University w.e.f. 03.03.2012 till date

(1) Worked as Registrar, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India (01/09/2011 to 28/10/2014)

Responsibilities accomplished/Undertaken

- a) Member, Syndicate, SGGSW University w.e.f. 01.09.2011 till date.
- b) Member, Academic Council, SGGSW University w.e.f. 01.09.2011 till date.
- c) Member, Senate, SGGSW University w.e.f. 01.09.2011 till date.
- d) Member, Finance Committee, SGGSW University w.e.f. 01.09.2011 till date.

- e) Member, Board of Studies in Chemistry of SGGSW University w.e.f. 03.03.2012 till date
- f) Member, Research Degree Committee in Chemistry of SGGSW University w.e.f. 03.03.2012 till date
- g) Member, Research Degree Board of SGGSW University w.e.f. 03.03.2012 till date
- h) Compiled results of December 2011 and May 2012 exams of SGGSW University.
- i) Liason with UGC for inspection of the University.
- j) Held the additional charge of Dean, Academic Affairs of SGGSW University w.e.f. 03.03.2012 to 03.10.2012
- k) Held the additional charge of Finance Officer of SGGSW University w.e.f. 19.03.2012 to 03.10.2012

(2) Worked as Professor in Chemistry at RIMT Maharaja Aggrasen Engineering College, Mandi Gobindgarh, Punjab, India (01/01/2011 to 31/08/2011)

(3) Worked as Principal cum Professor at RIMT Maharaja Aggrasen Engineering College, Mandi Gobindgarh, Punjab, India (15/06/09 to 31/12/2010 = 1Year 6 Months)

Responsibilities accomplished/Undertaken

- a) Member, Board of Studies in Chemistry, Punjab Technical University since 2005 till date
- b) Member, Academic Council of Punjab Technical University.
- c) Established the Labs for 3rd and 4th year of B.Tech. in disciplines of CSE, IT, ME and ECE
- d) Liason with AICTE and PTU for Extension of Approval and introduction of new course of B. Tech. (Civil Engg.) in Session 2010 – 2011.
- e) Vast improvement in academics and discipline among students.
- f) Organized a no. of Workshops and seminars for students
- g) Organized various Entrepreneurship Programmes and workshops through MSME Development Institute, Ludhiana and Regional Centre for Entrepreneurship Development, Chandigarh

(4) Worked as Principal cum Professor at RIMT Institute of Engineering & Technology, Mandi Gobindgarh, Punjab, India (01/07/07 to 14/06/09 = 2 Years)

Responsibilities accomplished/Undertaken

- a) Member, Board of Studies in Chemistry, Punjab Technical University since 2005 till date
- b) Member, Academic Council of Punjab Technical University.
- c) Liaison with AICTE and PTU for Extension of Approval and introduction of new course of M. Tech. (CSE) in Session 2009 -2010.
- d) Improved academics and discipline among students.
- e) Organized a no. of Conferences, workshops and seminars for faculty & students.

- f) Organized various Entrepreneurship Programmes and workshops through MSME Development Institute, Ludhiana and NITCON, Chandigarh.
- g) Organized Theory and Lab Sessions for **ONGC** in-service Persons under Unnati Prayas Scheme of PTU.
- h) Organized first Convocation of the college in 2009
- i) Formed Alumni Association of the College in 2009
- j) Organized Annual Technical Festivals of the college.
- k) Considerable enhancement in Placement of Students
- l) Introduced Soft Skills and Personality Development Courses to improve placement prospects of students.
- m) Local Controller of Examination and Evaluation Centre of PTU.

(5) Worked as Professor and Dean Academics at RIMT Institute of Engineering & Technology, Mandi Gobindgarh, Punjab, India (01/07/2004 to 30/06/07 = 3 Years)

Responsibilities accomplished/Undertaken

- a) Coordinator, Discipline Committee
- b) Coordinator, Examinations
- c) Incharge, Time Table Committee
- d) H.O.D. Applied Sciences & Humanities
- e) Local Controller of Exams for regular & Distance Education Exams of PTU.
- f) Controller of Evaluation Centre

(6) Worked as Asstt. Professor and Dean Academics at RIMT Institute of Engineering & Technology, Mandi Gobindgarh, Punjab, India (03/03/03 to 30/06/04 = 1 Year 4 months)

Responsibilities accomplished/Undertaken

- a) Coordinator, Discipline Committee
- b) Coordinator, Examinations
- c) Coordinator, Library and Purchase Committee
- d) Incharge, Time Table Committee
- e) H.O.D. Applied Sciences & Humanities
- f) Superintendent, Regular and Distance Education Exams of PTU

(7) Worked as Lecturer, M.M. Modi College, Patiala, Punjab, India (05/08/2002 to 28/02/2003 = 7 months)

- a) Conducted theory and practical classes of 10+1 and B.Sc. students.
- b) Member, Discipline Committee

(8) Worked as Senior Lab Technologist (designation equivalent to Senior Engineer) at Goetze (India) Limited, Bahadurgarh, Patiala, India (27/04/91 to 30/04/2002 = 11 years)

Responsibilities accomplished/Undertaken

- a) Quality Control and Testing of various products and incoming materials
- b) Member, Steering Committee for grant of IS:9000 and QS:9000
- c) Modernization of Laboratory by introducing Ion Chromatograph, CS analyzer and Image Analyzer
- d) Calibration of various equipments (In house and by outside agencies)
- e) Liason with Punjab Pollution Control Board, Auditors for ISO:9000 and QS:9000, Vendors and equipment Suppliers

ACADEMIC DETAILS

- (i) Ph.D. in 2001 from Thapar Institute of Engineering & Technology, Patiala. (Deemed University)

Topic: Synthesis, Characterisation and Applications of some Inorganic Ion-Exchangers

- (ii) M. Phil. with first division in 1990 from Guru Nanak Dev University, Amritsar.
- (iii) M. Sc. (Chemistry) with first division in 1989 from Guru Nanak Dev University, Amritsar.
- (iv) B. Sc. with first division in 1987 from Guru Nanak Dev University, Amritsar.
- (iv) Matriculation with first division from Punjab School Education Board, Mohali (Placed 82nd in State Merit List)

COMPUTER SKILLS: Well versed with MS word, MS office, Windows 98, 2000, XP,

PERSONAL DETAILS

Father's Name : S. Gurdev Singh

Mother's Name: Smt. Satwant Kaur

Date of Birth : January 02, 1966

Nationality : Indian

Gender : Male

Marital Status : Married

Permanent Address

Prit Pal Singh,
41, Street No. 1A/8
Guru Nanak Nagar, Patiala – 147003
Punjab, India

EXTRA CURRICULAR ACTIVITIES:

My hobbies include reading books and newspapers. I like interacting with

persons from different origins and making them friends.

REFERENCES

- 1) Dr. Susheel Mittal, Senior Professor, School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India
- 2) Dr. N.R. Dhamiwal, Former Professor & Head, Dept. Of Chemistry, Punjabi University, Patiala.
- 3) Dr. Baldev Singh Professor (Chemistry), Dept. Of Chemistry, Punjabi University, Patiala.

DETAILS OF PUBLICATIONS

(A) Papers Published in Refereed and Peer Reviewed Journals

1. Estimation of Trace Level Cadmium (II) by Polyaniline-zirconium phosphoborate nanocomposite based membrane electrode; Sandeep Kaushal, Rahul Badru, Pritpal Singh, Sanjeev Kumar and Susheel K Mittal (Communicated)
2. Estimation of Cr (III) in industrial effluents by zinc oxide-tin (IV) antimonophosphate nanocomposite based ion selective electrode; Sandeep Kaushal, Mandeep Kaur, S.K. Mittal and **Pritpal Singh**, Asian Journal of Chemistry, 29(7) 2017,
3. Synthesis and Characterization of Tin (IV) Antimonophosphate Nanocomposite Membrane Incorporating 1-Dodecyl-3-methylimidazolium Bromide Ionic Liquid; Sandeep Kaushal, Gurbir Singh, **Pritpal Singh** and Tejwant Singh Kang, RSC Advances, 7, 2017, pp 12561-12569
4. Zirconium (IV) phosphoborate based ion selective membrane electrode for potentiometric determination of Ba(II) ions, Sandeep Kaushal, A.P. Singh, Susheel K. Mittal and **Pritpal Singh**, Asian Journal of Chemistry, 29 (2) 2017, pp 375-380.
5. Electrochemical behavior of a membrane based on Zirconium (IV) phosphoborate nanocomposite and its application in dye removal, Sandeep Kaushal, Rahul Badru, Sanjeev Kumar, Pushpender K. Sharma, Susheel K. Mittal and **Pritpal Singh**, RSC Advances, 6, 2016, pp 111606-111615.
6. Nanocomposite Zirconium phosphoborate Ion-exchanger incorporating carbon nanotubes with Photocatalytic Activity, Sandeep Kaushal, Rahul Badru, **Pritpal Singh**, Sanjeev Kumar and Susheel K. Mittal, Separation Science and Technology, 51 (18), 2016, pp 2896-2902.
7. Fabrication of a Mercury (II) Ion Selective Electrode based on poly-o-Toluidine-Zirconium Phosphoborate, Sandeep Kaushal, Rahul Badru,

- Sanjeev Kumar, Susheel K. Mittal and **Pritpal Singh**, RSC Advances, 6, 2016, pp 3150-3158.
8. A Novel Zinc Oxide-Zirconium (IV) Phosphate Nanocomposite as Anti-bacterial Material with Enhanced Ion Exchange Properties, Sandeep Kaushal, Pushpender K. Sharma, Susheel K. Mittal and **Pritpal Singh**, Colloids and Interface Science Communications, 7, 2015, pp 1-6.
 9. Study of effect of Temperature on the Properties and Structure of Zirconium Phosphoborate Ion Exchanger, Sandeep Kaushal, **Pritpal Singh** and S.K. Mittal, International Journal of Advanced Technology in Engineering and Science, 02 (12), 2014, pp 663-669.
 10. Yttrium (III) Selective Electrode Based On Zirconium (IV) Phosphoborate, Sandeep Kaushal, **Pritpal Singh** and S.K. Mittal, Journal of New Materials for Electrochemical Systems, Vol. 17, 2014 pp 5-8.
 11. Electrochemical studies on zirconium phosphoborate based heterogeneous membranes, Sandeep Kaushal, **Pritpal Singh** and S.K. Mittal, Journal of Electrochemical Science & Engineering, 4 (1), 2014, pp 55 – 65.
 12. Synthesis of New Zirconium Based Ion Exchangers & Their Characterization, S.K. Mittal, **Pritpal Singh** and Harish Kumar, Journal of Ion Exchange, Vol. 16 (1), 2005, pp 1 – 7.
 13. Exchange kinetic studies on zirconium antimonophosphate, S.K. Mittal & **Pritpal Singh**, Indian Journal of Chemistry, Vol. 41A, 2002, pp 500 – 505.
 14. Electrochemical studies on zirconium phosphotungstate based heterogeneous membranes, S.K. Mittal & **Pritpal Singh**, New Materials for Electrochemical Systems, Vol. 4, 2001, pp 221 – 226.
 15. Synthesis, ion exchange properties and applications of tin(IV) antimonarsenate, S.K. Mittal & **Pritpal Singh**, Reactive and Functional Polymers (Elsevier), Vol. 40, 1999, pp 231 – 240.
 16. Thorium selective electrode using zirconium phosphoborate as electroactive material, S.K. Mittal & **Pritpal Singh**, Indian Journal of Chemistry, Vol. 34A, 1995, pp 1009 – 1011.

(B) Papers in Conferences

1. Estimation of Cr (III) in Industrial Effluents by Zinc Oxide-Tin (IV) Antimonophosphate Nanocomposite Based Ion Selective Electrode, Sandeep Kaushal and **Pritpal Singh**, 1st National Seminar on “Responsible Research and Innovations In Science & Technology” (RRIST-2017) held at Guru Nanak College, Budhlada, District Mansa, Punjab on March 18, 2017.
2. Tin (IV) antimonophosphate and 1-dodecyl-3-methylimidazolium bromide ionic liquid based nanocomposite membrane – Synthesis and Electrochemical Characterization, Sandeep Kaushal and **Pritpal**

- Singh**, VIth National Symposium on "Advances in Chemical Sciences" held at Guru Nanak Dev University, Amritsar on March 06 - 07, 2017
3. Synthesis, Characterization and Application of polyaniline-zirconium phosphoborate based ion exchange nanocomposite membrane; **Pritpal Singh**, 9th National Seminar on New Paradigm in Chemical Sciences: Synthetic and Analytical Perspectives-2017 (NPICS:SAP-2017) held at Punjabi University, Patiala on February 09–10, 2017.
 4. Education about or for Sustainable Development, BirBikram Singh and **Pritpal Singh**, 3rd International Conference on Sustainable Development through Green Initiatives held at Sri Guru Granth Sahib World University, Fatehgarh Sahib on March 01–02, 2016.
 5. Study on Effect of MWCNTs on Electrochemical Properties of Zr (IV)PB Ion Exchange Membrane, Sandeep Kaushal and **Pritpal Singh**, Recent Advances in Chemical, Biological and Environmental Sciences (RACES-2016) held at Multani Mal Modi College, Patiala on February 19–20, 2016.
 6. Synthesis and Applications of polyaniline-zirconium phosphoborate nanocomposite as Cd (II) selective electrode, antibacterial agent and photocatalyst, Sandeep Kaushal and **Pritpal Singh**, 8th National Seminar on New Paradigm in Chemical Sciences: Synthetic and Analytical Perspectives-2016 (NPICS:SAP-2016) held at Punjabi University, Patiala on February 04–05, 2016.
 7. Electrochemical studies on Zinc oxide-zirconium (IV) phosphate ion exchange membrane, Sandeep Kaushal and **Pritpal Singh**, 7th National Seminar on Synergic Aspects of Chemical and Other Sciences –2015 (SACOS-2015) held at Punjabi University, Patiala on February 19–20, 2015.
 8. Synthesis and Characterization of Polyaniline Zirconium (IV) Boratophosphate and its Application as Photocatalytic and Antimicrobial agent, Sandeep Kaushal and **Pritpal Singh**, National Seminar on Recent Advancement and Developments in Chemical Sciences (RADCS–2015) held at DAV College, Abohar on February 09, 2015.
 9. Synthesis and Characterization of heterogeneous cation exchange membranes filled with carbon nano-tubes, Sandeep Kaushal and **Pritpal Singh**, Recent Advances in Chemical, Biological and Environmental Sciences (RACES-2015) held at Multani Mal Modi College, Patiala on January 30–31, 2015.
 10. Study of Barium (II) selective electrode based on zirconium (IV) phosphoborate, Sandeep Kaushal and **Pritpal Singh**, Multidisciplinary National Conference on Innovative Trends in Science, Technology and Management (MNCITSTM-2014) held at Sri Sai University, Palampur, Himachal Pradesh on July 05–06, 2014.
 11. Synthesis and characterization of nanocomposite inorganic ion exchanger (ZrSbP), Sandeep Kaushal and **Pritpal Singh**, National Seminar on Recent Trends in Materials, Energy & Environment (NSRTMEE-2014) held at Sri Sai University, Palampur, Himachal Pradesh on January 18, 2014.

12. Structural Analysis of Some Inorganic Ion Exchange Materials, S.K. Mittal, **Pritpal Singh**, Harish Sharma and Ashok Kumar, National Conference on Materials & Related Technologies held at Thapar Institute of Engg. & Technology (Deemed University), Patiala on September 19–20, 2003.
13. Exchange kinetic studies on zirconium antimonophosphate, S.K. Mittal & **Pritpal Singh**, Third National Symposium in Chemistry (NSC–3) held at Punjab University, Chandigarh from February 2–4, 2001
14. Structural studies on crystalline tin(IV) arsenoantimonate, S.K. Mittal, O.P. Pandey & **Pritpal Singh**, Thermans–2000, Twelfth National Symposium and Workshop on Thermal Analysis held at DDU Gorakhpur University, Gorakhpur from March 26–29, 2000.
15. Electrochemical and thermodynamical studies on zirconium phosphotungstate based heterogeneous membranes, S.K. Mittal & **Pritpal Singh**, Euro Membrane 99 Conference held at Leuven (Belgium) from September 19–22, 1999.

(c) Books

1. Inorganic Ion Exchangers – Synthesis, Characterization and Applications as Ion Selective Electrodes, Pritpal Singh, Scholars' Press, Germany, ISBN No. 978-3-639-71329-9
2. Engineering Chemistry, Navneet Kaur, Manoj Bali & Pritpal Singh, Salaria Publishing House, ISBN No. 978-81-909167-1-4.

RESEARCH WORK

Research Guidance: M. Phil. (05, completed)

S. No.	Name of Candidate	Topic of Thesis	University	Year	Regd. No.
1.	Mrs. Monica Bansal	Water Pollution & Health Hazards	Periyar Uni, Salem	2007	06DCCL3421
2.	Mrs. Nidhi Suri	Effect of Industrialization on Water Quality	Periyar Uni, Salem	2007	06DCCL3610
3.	Mr. Avtar Singh Rahi	Synthesis of Fmoc-3-(N-ethyl-3-carbazoyl)-L-Alanine and its incorporation into a Cyclic Peptide	Periyar Uni, Salem	2007	06DCCL3423
4.	Mr. Atul Singla	Synthesis of 8-Mer bichromophoric peptide by F-moc strategy: Solid Phase Peptide Synthesis & its Cyclization	Periyar Uni, Salem	2007	06DCCL3430
5.	Ms. Kiranpreet	Potentiometric study on the Complex Formation of	MMU, Mullana	2009	100801037

	Kaur	Metal ions with N-4-Methyl Phenacylidene-o-amino Phenol			
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Ph. D.: 01 (Completed)

S. No.	Name of Candidate	Topic of Thesis	University
1.	Mr. Sandeep Kaushal	Electrochemical Studies on Heterogeneous ion Exchange Membranes	PTU

Ph. D.: 04 (in Progress)

S. No.	Name of Candidate	Topic of Thesis	University
1.	Ms. Mandeep Kaur	Nanoparticle incorporated Synthetic Inorganic Ion Exchange Membranes and Their Characterization	SGGSWU
2.	Ms. Goldi Sharma	Synthesis, Characterization and photocatalytic studies of doped BiPO ₄ nanostructures	SGGSWU
3.	S. Manmeet Singh	Synthesis, Characterization and photocatalytic studies of doped BiPO ₄ nanostructures	SGGSWU
4	Ms. Rupinder Kaur	Synthesis, Characterization and photocatalytic studies of doped BiPO ₄ nanostructures	SGGSWU

SHORT TERM COURSES/WORKSHOPS ATTENDED

1. AICTE sponsored Short Term Training Programme on Lasers & Their Applications, held at Thapar Institute of Engineering & Technology, Patiala from June 17 – 28, 1996.
2. Punjab Technical University sponsored Faculty Development Programme (FDP) conducted by NITCON at RIMT Maharaja Aggarwal Engineering College, Mandi Gobindgarh, from July 12 – 19, 2011.
3. Workshop on Examination Reforms held at YCOE University, Nashik from

Dr. Pritpal Singh