

Dr. M.S. Pathania

Designation : Associate Professor

Subject : Chemistry

Area of Specialization : Inorganic Chemistry

College : Govt. Degree College Samba.

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Summary

- Ph.D. degree in Chemistry
- Currently working at Govt. Degree College Samba.

Awards and Achievements

- Got Third position in M.Sc Chemistry
- Awarded Teacher Fellowship by UGC under FIP Scheme during 10th Plan.
- Awarded Master Karam Chand Best College Teacher Award during the year 2008.
- Life member of Indian Association of Solid State Chemists and Allied Scientists (ISCAS).
- Life member of Chemical Research Society of India, Indian Institute of Sciences, Bangalore. (LM- 771).
- Included in the 25th silver Anniversary Edition of:
'MARQUIS WHO'S WHO IN THE WORLD' of USA.

Workshops, Seminars, Symposia and Conferences attended

PAPERS PRESENTED IN CONFERENCES/WORKSHOP/SEMINARS

1. Participated and presented a paper in **41th Annual Convention of Chemists, 2004**, held in **New Delhi** on 23 – 27 Dec, 2004. (P.No ING – PP – 64), on the topic “*Synthesis and characterization of Cyano Complexes*”.
2. Participated and presented a paper in **National Symposium and Conference on solid state Chemistry and Allied Areas**, held in Goa University, Goa on Dec, 1 – 3, 2005. (P – 107), on the topic “*Oxodiperoxo complexes of Tungsten VI with MMU & Related ligands*”.
3. Participated and presented a paper in **National Symposium on New challenges in Chemistry**, organized by GND University, Amritsar on March 20 – 21, 2006. (PP – 33), on the topic “*Synthesis and Characterization N-Heterocycle salts of tetra isothiocyanato Dioxotungsten VI Complexes*”.
4. Participated and presented a paper in **National Symposium and conference on solid-state chemistry and allied areas (ISCAS) – 2007** from 28 – 30 Nov, 2007 held at Nagpur University, Nagpur. (PP-51), on the topic “*Molecular Modelling studies of some isothiocyanato Dioxotungsten VI Complexes with MMU and related ligands*”.

5. Participated and presented a paper in **One Day National Seminar** on ‘**Impact of IT on society: Emerging trends and issues**’ in Feb-2009, held at GCW Parade, Jammu, on the topic “*E-learning*”.
6. Participated and presented a paper in **Two Days National Seminar** on “**IQAC as a vehicle for Quality Education**” held at Govt. College for Women, Nava Kadal Srinagar, w.e.f 24th to 25th September, 2009, on the topic “*Role of IQAC in offering Best Practices in Higher Education Institutions*”.
7. Participated and presented a paper in **Two Days National Seminar** on “**Quality Concern in Indian Higher Education to Meet the Global Challenges**” held at Govt. College for Women, Gandhi Nagar Jammu, w.e.f 12th to 13th of October, 2009, on the topic “*Best Practices in Higher Education for Quality Enhancement*”.
8. Participated in scientific deliberations/ presented a paper in Two Day Seminar on “**Global Issues on Environment**” sponsored by UGC held at Govt.College for women Parade Jammu w.e.f 17th to 18th Sept., 2010.He was member of the organizing Committee(**Seminar Convener**), on the topic “*Global Warming-Causes and Effects*”.
9. Participated and presented a paper in **NAAC** sponsored two day National Seminar on “Higher Education: Realities, challenges, trends and priorities (21-22 May, 2013) on the topic “*Problems and prospects of Quality Assurance in Govt. College*” organized by GCW Parade Jammu.

CONFERENCES / SEMINARS ATTENDED

Participated in the following National / International Conferences / Seminars.

- 1) **1st J&K Science Congress**, held in University of Jammu on Feb, 7 – 9, 2005.
- 2) Seminar on “**Physics of Materials**” held in University of Jammu on Nov, 24 – 25, 2004.
- 3) **National Seminar on Science Education in India, Status and prospects**, held in Department of Chemistry University of Jammu on Nov, 20 – 21, 2000.
- 4) National Seminar on “**Radioactivity and Environment**” held on 20 – 5 – 1999, organized by **Indian Association of Solid State Chemists and Allied Scientists**.
- 5) UGC – sponsored 2- days National Seminar on “**Enhancing Educational opportunities for Economic Empowerment of Women**”, on 24 – 25 Nov, 2006 held at GCW Parade, Jammu
- 6) **Organized 21 days Workshop on Visual Basic / SQL** held at GCW Parade, Jammu from 7th Aug- 2007 to 30th Aug 2007
- 7) **One day Workshop on Examination** organized by University of Jammu on 16th March, 2007.

- 8) Organized and participated in **21 days Training Programme on Computers Basics** held at GCW Parade, Jammu from 3rd of April to 28th of April-2008.
- 9) Organised in **Two Days National IT Seminar “Role of IT in the development of country: Present Scenario, Future Scope”** on society w.e.f 23rd to 24th of December 2009 held at GCW Parade Jammu.
- 10) Participated **5th JK Science Congress** from 8-10 February, 2010 organized by Science for Society University of Jammu.
- 11) Participated in four day workshop on **“Capacity Building of Key Resource Persons of Jammu and Kashmir School Education Department on Question Paper Setting”** held from 20-03-2010 to 23-03-2010 at JK BOSE Campus Rehari Colony, Jammu organized by the D.E.M.E., N.C.E.R.T in collaboration with Jammu and Kashmir State Board of School Education, Jammu.
- 12) Attended the workshop on **“NAAC accreditation/ Re-accreditation organized by the Department of Higher Education,”** J&K Govt. Gandhi Memorial Science College, Jammu on 20th -21st August 2010.
- 13) Participated in Two Day workshop on **“Blue Print and Model paper development for single paper scheme of Examination for class XIIth”** as a resource person w.e.f. 28-9-2010 to 29-9-2010, organized by J&K Board of school Education Jammu.
- 14) Attended UGC Sponsored Two Day workshop on **“Convention on Elimination of All Forms of Discrimination Against Women”** w.e.f. 1st Novt. 2010, to 2nd Nov., 2010, organized by centre for Women Studies Govt. College for women Parade Ground Jammu.
- 15) Participated in the **ISCAS National Symposium on “New Trends in Material Research”** held at ISCAS Institute of Solid State and Material Science, Jammu, University Campus, during 18th Nov. to 19th Nov., 2010.
- 16) Participated and presented a research paper in ***Chemical Research Society of India, North Zone Meeting, 2011*** University of Jammu, Jammu during Sep 22nd to 24th 2011.
- 17) Attended, 15th days ***Faculty Development Workshop*** Organized by Department of Computer Sciences, GCW Parade in Collaboration with Department of ***Life Long Learning***, Jammu University, at GCW Parade, Jammu from 19th of Nov 2011 to 03rd Dec 2011.
- 18) Organized/ attended the **World Philosophy Day-2011**, at Govt. College for Women Parade, Jammu Under the auspices of ***India Council of Philosophical Research*** (New Delhi) on 7th of Dec, 2011.
- 19) Attended Two Day Workshop on the theme ***‘Designing and developing methodology for Quality improvement and maintance of IQAC and Coordinator Cell***, as a resources person, organized by Trikuta Degree College, Nardni- Raipur Jammu during 2nd and 3rd of Dec 2011.
- 20) Acted as Judge for Judgment of Science Models displayed in the 2nd District level science Exhibition – 2012 under ***INSPIRE AWARD SCHEME*** w.e.f. 6-07-2012 to 7-7-2012.
- 21) Participated in ***101th Indian Science Congress-2014*** organized by the University of Jammu w.e.f. 03-02-2014 to 07-02-2014.

- 22) Acted as **Zonal Magistrate** for Lok Sabha Election in respective of District Samba w.e.f. 5-04-2014 to 10-04-2014.
- 23) Participated in three days training programme on “**Pension and Retirement Benefits**” sponsored by DOPT GOI and organized by IMPA Jammu w.e.f. 18th to 20th of Aug.2014.
- 24) Presented a guest lecture on the topic “**Global Warming**” at GDC R. S. Pura on 15-10-2014.
- 25) Attended Two Day Workshop on “**Accreditation Awareness and Institutional Ranking**” held at Central University of Jammu w.e.f. 5th-6th of January 2015.
- 26) 10th J&K Science Congress organized by the University of Jammu w.e.f 14.03.2015 to 16.03.2015.
- 27) National Seminar on Science and Technology for Human Development Organized by the Department of Zoology University of Jammu w.e.f 25.03.2015 to 27.03.2015.
- 28) Attended Two Day Workshop on “**Choice Based Credit System**” organized by Govt. College for Women, Parade Ground Jammu w.e.f. 22nd-23rd April, 2015.
- 29) Attended one Day Workshop regarding “**J & K Prime Minister Special Scholarship Scheme**” organized by Department of Higher Education J & K at Govt. College for Women, Gandhi Nagar, Jammu on 9th of June-2015.
- 30) Acted as Judge for Judgment of Science Models displayed in the **District level science Exhibition – 2015** under **INSPIRE AWARD SCHEME** organized by DIET samba w.e.f. 18-09-2015 to 19-09-2015..
- 31) Participated in **11th National Conference** on the Indian Thermodynamics Society on “Advances in chemical science and Thermodynamics” w.e.f. 02/12/2016 to 03/12/2016, organized by The Deptt. of Chemistry, University of Jammu.
- 32) Participated in one day **workshop on IQAC/API orientation course** on 06/02/2017, organized by GGM. Sc. College Jammu and conducted by Higher Edu. Deptt-J&K.

Research Publications

- “Synthesis and characterization of some Isothiocyanato complexes of dioxotungsten (VI) with morpholinomethyl urea and related ligands”
M.S.Pathania, A.Hussain, H.N.Sheikh and B.L.Kalsotra
Journal of Indian Chemical Society, Vol. 82, July **2005**.
- “Synthesis and characterization of cyano complexes of oxotungsten (IV) with moropholino methyl urea and releated ligands”
M.S.Pathania, H.N.Sheikh and B.L.Kalsotra
Russian Journal of Inorganic Chemistry, Vol. 51, No. 9, **2006**.
- “Dipyridinium Tetraisothiocyanato diosotungsten (VI) and related Compounds”
M.S.Pathania, H.N.Sheikh and B.L.Kalsotra
Russian Journal of coordination Chemistry, Vol. 33, **2007**.

- “Preparation and characterization and oxoperoxo tungsten (VI) complexes with morpholinomethylurea and related ligands”
M.S.Pathania, H.N.Sheikh and B.L.Kalsotra
Russian Journal Inorganic Chemistry, Vol. 52, **2007**.
- “Synthesis and characterization of tungsten carboxyl complexes containing N- Methyl-substituted urea and thiourea ligands”
M.S.Pathania, H.N.Sheikh and B.L.Kalsotra
Journal of coordination Chemistry, Vol. 60, **2007**.
- “Synthesis and characterization of oxodiperoxo complexes of tungsten (VI) with some Mannich base ligands”
M.Sharma H.N.Sheikh, **M.S.Pathania** and B.L.Kalsotra
Journal of coordination Chemistry, Vol. 62, **2007**.
- “Synthesis and characterization of Nitrosyl Pseudohalo chromium (I) complexes with morpholinomethyl- urea and related ligands”
Ekta Sharma, H.N.Sheikh, **M.S. Pathania** and B.L.Kalsotra.
Journal of Indian Chemical Society, Vol. 84, **2007**.
- “Synthesis and characterization of oxodiperoxo complexes of tungsten (VI) with some Mannich base ligands.”
M.Sharma, H.N.Sheikh, **M.S. Pathania** and B.L. Kalsotra.
Journal of Coordination Chemistry, Vol. 61, **2008**.
- . Peroxo Complexes of Molybdenum (VI) containing Mannich Base Ligands.
M.Sharma, M.Saleem, **M.S.Pathania**, H.N.Sheikh and B.L.Kalsotra.
Chinese Journal of Chemistry, Vol. 27, **2009**.

Book Publications

1. New Trend Practical Chemistry for BSc – Part- III, by Dr.Romesh Chander and Dr. M.S.Pathania
Published by M/S Shoban Lal & Bros., Jalandhar. Edition – 2006.
2. New Trend Practical Chemistry for BSc – Part- III, by Dr.Romesh Chander and Dr. M.S.Pathania
Published by M/S Shoban Lal & Bros., Jalandhar. Edition – 2006.
3. Naveen Inorganic Chemistry for BSc –Part II, by Dr. M.S. Pathania and **Prof. K.B. Abrol**
Published by Malhotra Bros., Jammu. Edition 2008.
4. **Inorganic, Organic and Physical Chemistry for B.SC Part-1(Pass and Honors) By Dr. M.S Pathania and Prof. Arun Kumar.**
Published by M/S Shoban Lal & Bros., Jalandhar. Edition – 2008

5. Naveen Inorganic Chemistry for BSc –Part III, By
Prof. K.B. Abrol, Dr. M.S. Pathania, and Dr. Arun Kumar
Published by Malhotra Bros., Jammu. Edition 2008

6. Naveen Organic Chemistry for BSc –Part II, by Prof. K.B. Abrol and
 Dr. M.S. Pathania
Published by Malhotra Bros., Educational Publishers, Jammu- Edition 2014.

7. INORGANIC CHEMISTRY-I for B. Sc. Semester-I, by Prof. K.B. Abrol and
 Dr. M.S. Pathania and Dr. O. S. Choudhary
Published by Malhotra Bros., Educational Publishers Jammu- Edition 2015.

8. Experimental chemistry for B. Sc.-Semester-I by Prof. K.B. Abrol and Dr. M.S. Pathania and Prof. Jagdish Kumar
Published by Malhotra Bros., Educational Publishers Jammu- Edition 2015.

9. INORGANIC CHEMISTRY-II for B. Sc. Semester-IV, by Prof. K.B. Abrol and
 Dr. M.S. Pathania and Dr. Mohd. Saleem
Published by Malhotra Bros., Educational Publishers Jammu- Edition 2016.

10. INORGANIC CHEMISTRY EXPERIMENTS, Laboratory course for B. Sc.-Semester-IV
 by Prof. K.B. Abrol and Dr. M.S. Pathania and Prof. Jagdish Kumar
Published by Malhotra Bros., Educational Publishers Jammu- Edition 2016.

Academic Qualifications

Examination Passed	Board/ University	Subjects	Year	Division / Grade / Merit
SSC	J&K Board of School Education Jammu	Science & Drawing	1978	2 nd
Higher Secondary	J&K Board of School Education Jammu	Non Medical(PCM)	1980	1 st
Bachelor's Degree(s)	University of Jammu	Non Medical(PCM)	1983	1 st
Master's Degree(s) (M.Sc.)	University of Jammu	Chemistry	1985	1 st /3 rd merit position.
Other Diploma / Certificates etc.(BEd)	University of Jammu	Education	1992	1 st

Research Experience

Research Stage	Title of Work /Thesis	University where the work was carried out	Year
Ph.D. Chemistry	Preparation and Characterization of Some Mixed Ligand complexes Of TUNGSTEN	University of Jammu	2006

Teaching Experience

Courses Taught	Name of the University/ College/Institution	Duration
B.Sc. Chemistry(Part I/II/III)	Govt. Degree College Rajouri	1995-1998
B.Sc. Chemistry(Part I/II/III)	Govt. Degree College Kathua	1998-2003
Deputation for PhD	Department of Chemistry, University of Jammu	2003-2006
B.Sc Chemistry(Part I/II/III)	Govt. College for Women Parade Ground, Jammu	2006-2012
B.Sc Chemistry(Part II/III & B.Sc. Sem. I/II---VI)	Govt. Degree College, Samba	2012-2017

Extension Work / Community Service

- Acted as Udaan Nodal Officer for District Samba w.e.f March 2014 to date by order of N.S.D.C, New Delhi and also working as convenor career counseling cell of the college.
- Acted as Zonal Magistrate for Lok Sabha Election in respective of District Samba w.e.f. 5-04-2014 to 10-04-2014.
- Acted as Nodal Officer for PM'S Special Scholarship Scheme 2015-16 for the Facilitation Centre constituted at GDC samba.
- Acted as a member of Inspection Committee of Shri Rahgunath Sanskrit Maha Vidyalaya, Birpur Jammu and Private B.Ed. Colleges of Samba Distt.
- Acted as Judge for Judgment of Science Models displayed in the 2nd District level science Exhibition – 2012 under **INSPIRE AWARD SCHEME** w.e.f. 6-07-2012 to 7-7-2012.
- Presented a guest lecture on the topic “**Global Warming**” at GDC R. S. Pura on 15-10-2014.
- Acted as Judge for Judgment of Science Models displayed in the **District level science Exhibition** – 2015 under **INSPIRE AWARD SCHEME** organized by DIET samba w.e.f. 18-09-2015 to 19-09-2015..