

## Om Prakash

Ph.D. in Organometallic Chemistry  
Assistant Professor  
Dept. of Chemistry, M.P.G.P.G. College, Hardoi-  
241001, U.P. India



## Contact

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## Research Field

Synthesis / biosynthesis and characterization of bioactive molecules

**Projects:** Screening, Selection and Identification of Microbes Useful in Biosynthesis of Bio Active Compounds having Phosphorous-Carbon bond submitted to UGC scheme of "Minor Research Grant" (Under consideration).

## Responsibilities

**Academic:** Conduct regular theory and practical courses for Undergraduate and Postgraduate students

### *Courses taught*

- General organic chemistry
- General in-organic chemistry
- General physical chemistry

- Spectroscopy of organic and inorganic compounds
- Stereochemistry of organic compounds
- Synthesis and reactions of organic compounds
- Bio-molecules (carbohydrates, amino acids, proteins etc)

#### Administrative:

- Member of the following college committees (2013-2014)
- UGC, NAAC and IQAC committee
- Computer committee
- Scholarship committee
- Institutional academic coordinator under RUSA Plan
- Member, project monitoring unit under RUSA Plan
- Member, Editorial board of proceedings and college magazines

#### Work Experience

- *Present Job:* Working as Assistant Professor, Department of Chemistry, M. P. Govt. P. G. College. Hardoi, U.P., India since August 2013.
- *Past Job:* Worked at the post of "Examiner of Patents & Design" in the "Office of Controller General of Patents, Designs and Trade-Mark", Ministry of Commerce & Industry, Government of India, [Jan., 2012 to Aug., 2013].

*Nature of Job:* Examination of patent applications related to chemistry and pharmaceutical chemistry [for product or process or product-by-process] filed before the Indian Patent Office by national and international applicants. All types of patent applications were examined under the legal frame work of Indian Patents (Amendments) Act, 2005.

Examination of patent applications is a techno-legal work which includes [major work]

1. Framing of search strategy.
2. Search on global data bases like STN, Thomson & Reuter, Orbit, Pat base, Google Patents etc.
3. To establish Novelty, Inventive-step and Industrial applicability regarding patentability under the preview of Indian Patents Act.

4. To represent view of Government of India under pre or post grant oppositions during hearing of cases.

### Additional Qualifications

- Three months training on "Patent Examinations" from February 2012 to April 2012 at RGNIIPM, Nagpur India.
- Diploma (2012) in "Intellectual Property Rights and Information Technology in the Internet Age" from "The Indian Law Institute", New Delhi.

### Academic Qualifications

- Ph.D. (2011), with Dr. Kiran Singhal, Department of Chemistry, University of Lucknow, Lucknow, U.P., India. (Thesis: Synthesis reactions and biological applications of organo-arsenic and antimony compounds)
- M.Sc. (1999) in Organic Chemistry, from University of Lucknow, Lucknow, U.P., India - 226001, India.
- B.Sc. (1995) Major Subjects: Chemistry, Zoology and Botany from Gorakhpur University Gorakhpur, U.P., India.

### Research Papers

1. **Om Prakash**, Singhal K. and Prem Raj (2014) antimicrobial activity of unsymmetrically cyclo-hexyl substituted Organo-antimony (V) compounds; *Indian Journal of Plant Pathology* 33(1&2): ISSN 0970-342X.
2. Singhal K., Chaudhary S.K. and **Om Prakash** (2013) action of Metal and Organometallic Halides and Pseudo-halides towards Stannoxanes. *Asian J. Chem.*, 25(16), 9020-9022.
3. Singhal K., Chaudhary S K., **Om Prakash** and Prem Raj (2012) Synthesis and characterisation of  $\mu$ -oxy-bis [triarylantimony (v)]

dicarboxylates and halo-carboxylates. *Science Inventions Today*. 1(2): 85-97.

4. Singhal K., Mishra R and **Om Prakash** (2007). Synthesis and characterization of unsymmetrical tetra-arylstibonium amides, -oximates and -carboxylates. *Asian Journal of Chemistry*.19: 288-296.
5. Singhal K., Prem Raj, Mishra R and **Om Prakash** (2005). Preparation and characterization of aryl antimony (III) aryloxyacetates  $Ar_nSbL_3-n$ . *Synthesis and Reactivity in Inorganic, Metal Organic and Nano Metal Chemistry*. 35: 889-893.

### Conferences/ Workshops/ Orientation/ Refresher events attended/organized

1. Successfully completed one month Orientation Program at "UGC - Academic Staff College Lucknow" under UGC curriculum from 01<sup>st</sup> - 30<sup>th</sup> Jan, 2014.
2. Co-organizing Secretary in National Seminar on "Emerging Trends in Science & Technology in 21st Century" organized by Faculty of Sciences Maharana Pratap Govt. P. G. College Hardoi -241001, U. P. From 25<sup>th</sup> -26<sup>th</sup>, Feb, 2014.
3. Chaired a session in National Seminar on "Emerging Trends in Science & Technology in 21st Century" organized by Faculty of Science Maharana Pratap Govt. P. G. College Hardoi -241001 U. P. From 25<sup>th</sup> -26<sup>th</sup>, Feb, 2014.
4. Contributed a research paper entitled "Effective Chemistry Teaching by the Use of Information and Communication Technology" in a National seminar and eExpo on "Role of ICT in Quality Improvement of Higher Education and Research" organized by Government Degree College Pihani, Hardoi-241406; U. P. from 22<sup>nd</sup> - 23<sup>rd</sup>, Feb, 2014.

5. Participated in an "International Workshop on Responsible Management Education" organized by Lucknow University on January 13<sup>th</sup>, 2014.
6. Participated in 8th National Conference on "Thermodynamics of Chemical, Biological, and Environmental Systems-2013" organized by Department of Applied Chemistry, School for Physical Sciences Babasaheb Bhimrao Ambedkar Central University Lucknow-25, U. P. India, from November 25 -26, 2013.
7. Participated in International Conference on "Nanoscience and Nanotechnology" organized during November 18-20, 2013 by Department of Applied Physics, School of Physical Sciences Babasaheb Bhimrao Ambedkar University, Lucknow.
8. Participated in National Conference on "Microbes Promoting Crop Health, Productivity & Sustainability" organized jointly by CSIR-CIMAP and CSIR-NBRI, Lucknow from October 26-27, 2013.
9. Participated in 89th Session of Indian Science Congress - 2002 organised by Indian Science Congress at Lucknow University from 3<sup>rd</sup> -7<sup>th</sup>, January 2002.
10. Secured second position in Environmental Quiz organized during a National Seminar on "Waste Management" organised jointly by Lucknow University, Centre for Environment Education-North region and Regional Science Centre, held at Lucknow University, Lucknow from 25-26, March 1996.

### Invited Lectures

- Delivered lecture on "Importance of Patents and Procedure for Patenting a Product or Design" in one day Sensitization program on Intellectual Property Rights Organised by MSME-D1, Naini, Allahabad at Industrial Area Jagdishpur, Amethi, U. P. On Dec, 24 - 2013.
- Delivered Invited Talk entitled "An Introduction to Patents" in National Seminar on "Emerging Trends in Science & Technology in 21st Century" organised by Faculty of Science Maharana Pratap

Govt. P. G. College Hardoi -241001, U. P. From 25-26; February 2014.

### **Fellowships Awards**

- CSIR NET with JRF Dec 2000. Award NO. 2-40/2000(ii)-EU II
- CSIR NET June 2000. Award NO. 2-44/2000(i)-EU II
- GATE qualified in 2005.

### **Membership of Professional Societies**

- Life time member of Indian Science Congress (L24020)