

Dr. Vinod Jena

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Education

- **PhD: Analytical Chemistry**
PT Ravishankar Shukla University Raipur 2009
- **National Eligibility Test : CSIR New Delhi India 2003 & 2004 thrice Passed**

PhD Project: Arsenic and other heavy metal toxicity in Central india

PhD thesis Title: “Analytical studies on heavy metal pollution and their impact”

Research Project Completed

CSIR New Delhi project entitled Arsenic and other heavy toxicity in central India 2005-07

CG Cost Project entitled Removal techniques for arsenic from drinking water 2007-08

Fellowships

Junior Research Fellowship (JRF) by CSIR New Delhi sponsored project 2005

Junior Research Fellowship (JRF) by CGCOST sponsored project 2007

Research Interest

- Heavy metal pollution
- Water pollution and its management
- Phytoextraction
- Phytoremediation
- Environmental Pollution

Journal Publications

- 13 Assessment of factors responsible for climate Change and human health, Vinod Jena & Neda Davic, EMS Proceedings, Vol. 7, EMS2010-PREVIEW, 2010.
- 12 Heavy metal contamination of steel plant sludge and their impact, Croat J Sci Technol., V.K. Jena, Neda Davic, D Radojevic, Natalija Matic, 2013, 692), Accepted forr Publication.
- 11 Accumulation of heavy metals with vegetables leaves grown in contaminated soil, V.K. Jena, S Gupta, Neda Davic, D Radojevic, Natalija Matic, Croat J Sci Technol. 2013, 5(2).

- 10 Studies on heavy metals in medicinal plant Basil V.K. Jena, S. K Dixit, S. Gupta, Journal of Environmental and Analytical Toxicology, 2012, 1-8.
- 9 Studies on arsenic and other metals uptake by some spices, V.K. Jena, Neda Davic, D Radojevic, Natalija Matic, S Gupta, R S Dhundhel. Croat J Sci Technol., 2013, Ready to publish.
- 8 Determination of total heavy metal by sequential extraction from soil, V.K. Jena, S. K Dixit, S Gupta, International Journal of Environmental Sciences, 2012.
- 7 Assessment of water quality index of industrial area surface water samples, V.K. Jena, S. K Dixit, S Gupta, International Journal of ChemTech Research, 2013.
- 6 Physicochemical parameters assessment of ground water in different sites of Bhilai city, Chhattisgarh V.K. Jena, S. K Dixit, S Gupta, Rasayan Journal of Chemistry, 2012.
- 5 Assessment of Kharoon river water quality at Raipur by physicochemical parameters analysis, V.K. Jena, S Gupta & Natalija Matic, , Asian J Exp. Biol. Sci, 2013.
- 4 Study of pond water quality by the assessment of physicochemical parameters and water quality index, V.K. Jena, S.K Dixit, R Shrivastava, S Gupta, International Journal of Applied Biology and Pharmaceutical Technology, 2013.
- 3 Risk assessment of heavy metal toxicity through edible vegetables from industrial area of Chhattisgarh, V.K. Jena, S. K Dixit, S Gupta, International Journal of Research in Environmental Science and Technology, 2013.
- 2 Vinod Jena, Sludge and sediment in Karst area, Proceeding of Int. SymPseudokartst, 2008.
- 1 Arsenic Contamination in Drinking Water: An Economical Study from Central India, Vinod Jena, BALWOIS General Administration, BALWOIS 2012.

Paper Presentations

- 15 V. K. Jena & K. S. Patel, Arsenic Pollution in Chhattisgarh, International Conference on Ground Water (IGC), New Delhi, India, Feb. 01-04, 2006
- 14 V. K. Jena & K. S. Patel, Arsenic and other toxic metals in vegetables, International Conference on Ground Water (IGC), New Delhi, India, Feb. 01-04, 2006
- 13 V. K. Jena & K. S. Patel, Simple and Rapid Method of Detection of Phosphorous in Water, International Conference on Analytical Science (ICAS), Moscow, Russia, June 26-30, 2006.
- 12 S. Patel, Exploitation of Natural Resources and their environmental Impacts in India, 14th International Marie Curie Conference, International Karstological School, Postojna, Slovenia, June 26-July 02, 2006.
- 11 V. K. Jena & K. S. Patel, Arsenic and other metals in vegetable, International Conference on arsenic contamination in tropics, Raipur, India, Feb19-21, 2007.

- 10 V. K. Jena & K. S. Patel, Arsenic In coal leachates, International Conference on arsenic contamination in tropics, Raipur, India, Feb19-21, 2007.
- 9 V. K. Jena, S. Gupta & K. S. Patel, Assessment of physicochemical properties of Karst water and their sustainable management, 15th International Marie Curie Conference, International Karstological School, Postojna, Slovenia, June 18-22, 2007.
- 8 Vinod Jena & K S Patel, E-Conference Environmental (In)Justice: Sources, Symptoms, and Solutions 11-24 April 2008.
- 7 Neda Davic & V K Jena, Assessment of toxic metals in various sediment/sludge of industrial area, Symposium on green chemistry, Serbia June1-7, 2012.
- 6 V. K. Jena & K. S. Patel, Studies on toxic metals in sediment, 16th International Marie Curie Conference, International Karstological School, Postojna, Slovenia, June 15-21, 2008.
- 5 V.K Jena, Studies on IR chemistry, International Summer School On Chemistry, Karlsruhe, Germany, June 22-28, 2008.
- 4 V. K. Jena, S. Gupta, S. C. Patel & K. S. Patel, Heavy Metal Accumulation In Vegetables, International Summer School On Green Chemistry, Venice, Italy, Oct 12-18, 2008.
- 3 V. K. Jena, S. Gupta, S. C. Patel & K. S. Patel, Study of phyto-remediation of arsenic from contaminated soil & water, International Karstological School, Postojna, Slovenia, June 15-21, 2009.
- 2 V. K. Jena, How Environmental pollution: Sources and Remediation, International Isaac Newton Institute, Cambridge, UK, March 27- April1, 2010.
- 1 V. K. Jena, , Sources and Impact of aerosol Pollution in Central India, WCRP, Queenstown, New Zealand, April 12-16, 2010.

Book Publications

| Name of Book | Publisher | ISBN |
|---|-------------------------|-------------------|
| An Easy Way to Understand NMR Spectroscopy | LP Inc Publisher NC USA | 978-1-329-60442-1 |
| Mechanism of Selected Heterocyclic Name Reactions | LP Inc Publisher NC USA | 978-1-329-42835-5 |
| Basic Study of Hererocyclic Chemistry | LP Inc Publisher NC USA | 978-1-329-34043-5 |
| Basic Principles Of Organic Chemistry | LP Inc Publisher NC USA | 978-1-312-78297-6 |
| Organic Reactions and Mechanism Through | LP Inc Publisher NC USA | 978-1-312- |

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| Solved Problems | 62476-4 |
| Electronic Spectra of Transitions Metal LP Inc Publisher NC USA | 978-1-329- |
| Complexes | 05987-0 |
| Practice Problems of Organic Photochemistry LP Inc Publisher NC USA | 978-1-312-67147-8 |

Awards/ Achievements

Marie Curie Grant by European Commission Five times in Year 2006,2007, 2008, 2009, 2010

INKA Grant by INKA Institute Venice, Italy

Isaac Newton Grant by Cambridge University four Times in Year April 2010, June 2010, Aug, 2010, Dec 2010.

Emerging Scientist Grant, Atmospheric Division, New Zealand In Year 2010

Memberships of Societies/Committees

- IUPAC Associate Member (2011 to till date)
- Association of Community Modeling and Analysis Systems (CMAS) (From 2009 to present)
- The Egyptian Society for Environmental Science (ESES), (Annual Member 2009)
- Associate Member of CiE(2010 to Present)
- Indian Council of Chemists (Annual 2006)
- Acid Rain Society (Life Member)

Languages: Hindi, English, Slovene, Serbian

(Vinod Jena)