

## CURRICULUM VITAE



Name : **DR. ANAND KAMAVISDAR**

Date of Birth : 26<sup>th</sup> August 1971

Father and Mother's Name : Prof. Dr. Sharad Kamavisdar and Mrs. Chhaya Kamavisdar

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Permanent Address : 30/130, Tatyapa Para, Raipur 492001 CG India

Languages known : Marathi, Hindi, English, Sanskrit, and German

Religion, Category : Hindu, General

Nationality : Indian

Marital Status : Married [Wife' name:- Mrs. Anjali Kamavisdar, M.Sc.]  
[Son's name: - Mr. Jay Kamavisdar]

Email address : [kamavisdar\\_1971@rediffmail.com](mailto:kamavisdar_1971@rediffmail.com)

Qualification : M.Sc., Ph.D. (Analytical Chemistry), Diploma In Systems  
Management (NIIT), Certificate. In German language

Examination	University/Board	Year of Passing	Subject(s)
Ph.D.	Pt. Ravishankar Shukla Raipur-10 CG India	19 <sup>th</sup> October 2000	Analytical chemistry
M.Sc. [62.75%]	Pt. Ravishankar Shukla Raipur-10 CG India	12 <sup>th</sup> July 1994	Physical chemistry
B.Sc. [65.78%]	Pt. Ravishankar Shukla Raipur-10 CG India	August 1992	Chemistry, Zoology, Botany, Hindi, English
DSM	NIIT, Mumbai	6 <sup>th</sup> February 1996	Systems Management
Cert. In German	Nagpur University	22 <sup>nd</sup> May 2001	Basic German Language

Research related visits abroad : Austria (2003), Slovenia (2005), Italy (2006) (2007), Greece (April 2008),  
Belgium (July 2008)

**Research, teaching and training experience** : **≈ 14 Years**

**1. 5<sup>th</sup> May 2005 – 21-01-2010**

**Presently working Research Officer with National Institute of Miners' Health, WADI, Nagpur MS India** (An autonomous research institution under Ministry of Mines, Government of India). The duties are to collaborate and liaise with National and International organizations, scientific agencies, educational institutions and industries in the areas of research, consultancy services, teaching and training with special reference to occupational hygiene issues in mines and mineral based industries. Also working as in-charge of analytical laboratory of occupational hygiene division of the institute

**2. [23<sup>rd</sup> October 1997 to 4<sup>th</sup> May 2005]**

Worked as **Technical Assistant [Gr. III (1)]** with Central Fuel Research Institute, Nagpur, MS, INDIA (An ISO 9001 institute and constituent Laboratory of Council of Scientific & Industrial Research, Ministry of Science & Technology, Government of India). Worked on proximate and ultimate analysis of coal and coke samples, also its calorific value determination and speciation of sulphur in coal.

**3. [9<sup>th</sup> January 1995 to 15<sup>th</sup> October 1997]**

Worked as **Junior Research Fellow** (2.5 Years) with a research project entitled "Water Quality of Dandkarnya" sponsored by Ministry of Environment & Forests, New Delhi + research work leading to Ph.D. degree at School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, CG, INDIA. Worked on spectrophotometric procedure development for the determination of heavy metals, also on physical and chemical analysis of water samples.

**Research recognitions**

Research papers published : Journals : 16 published, 1 Communicated  
Conferences : 25 accepted/presented  
Technical reports : 07 Published

Reviewer of the Journal : International Journal of Materials Research, Germany  
Water Science & Technology

Ph.D. thesis examiner : Saurashtra University, Rajkot, Gujarat, India

**International assignments:**

- Participated in International Conference on Building Sustainable Futures, Enacting Peace and Development by International Peace Research Association at Leuven, Belgium, 15-19 July 2008.
- Participated in International conference sharing knowledge across the Mediterranean held at Chania, Crete, Greece 7 – 9 April 2008.
- Participated in International workshop on "G8 UNESCO World Forum on Education, Innovation and Research" at ICTP, Trieste, Italy 10 May – 12 May 2007.
- Participated in International workshop on "Economic Development of Physicists from Developing Countries" at ICTP, Trieste, Italy 27 November – 1 December 2006.
- Participated in 29<sup>th</sup> International conference on solution chemistry at Portoroz, Slovenia 21-25 August 2005.
- Visited BOKU, Vienna, Austria for two and half months for Post doctoral Research Work in Year 2003 (January-March)

## Trainings/Workshops:

- Completed training on “Quantitative Analysis for Empirical Research” at JNARDDC, 21-23 January 2009.
- Completed training on “Operation and Maintenance of Biochemical Instruments” with ATI-EPI, Hyderabad, Min. of Labour, Govt. of India. (08-04-1996 – 19-04-1996).
- Completed two years of National Service Scheme (NSS) during graduation.
- National Workshop on Fundamental and Analytical Aspects of Self-Organising Systems, Pt. Ravishankar Shukla University, Raipur 492010 CG India (4-6 August 1997).

## Details of Research Work

- Doctoral degree work: The Ph.D. degree on the topic “**Analytical Studies of Heavy Metal Pollutants**” was awarded by Pt. Ravishankar Shukla University, Raipur –10 CG India. The work comprised the spectrophotometric procedure development for vanadium and bismuth, Flow Injection Analysis procedure for the determination and speciation of iron and detailed monitoring studies on lead pollution in the study area (Chhattisgarh state). The procedures developed were successfully applied to various environmental samples.

## Membership/Recognitions:

- Annual Member of Chemical Research Society of India, IISc, Bangalore.
- Member of European Association for the Science of Air Pollution (EURASAP), Portugal.
- Member of Scientific Council on Analytical Chemistry of the Russian Academy of Sciences (foreign Branch)
- Scientific Committee member of International Academy of Environmental Science (IAES), Venice, Italy.
- Member of International Peace Research Association (IPRA)
- Former Affiliate member of International Union of Pure and Applied Chemistry (IUPAC).
- Former Member of the Laboratory Safety Institute, MA, USA.

## Academic Referees

Prof. Dr. K. S. Patel, (Humboldt Fellow), School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur 492 010 CG, India.  
(Ph.D. thesis guide)

Prof. Dr. Rama Pandey, Head, School of Studies in Chemistry,  
Pt. Ravishankar Shukla University, Raipur 492 010 CG, India.

## LIST OF PUBLICATION IN JOURNALS / BOOKS

*Heavy Metal Pollution and Their Effects on Environmental Health*, A. Kamavisdar, **Indian Journal of Environmental Protection**, Vol. 30 No.4, 335-340, 2010

*Analytical Studies on the Characterization of molybdenum in Soil Samples*, A. Kamavisdar, R. M. Patel, and S. R. Khanwalkar, **Indian Journal of Environmental Protection**, Vol. 29 No. 12, 1079-1082, 2009.

*Studies on lead, iron and mercury in water samples near metalliferous mining industries of Chhattisgarh State, Central India* A. Kamavisdar and R. M. Patel **Indian Journal of Environmental Protection**, Vol. 28 No. 5, 458-461, 2008.

*Whole Body Vibration Exposure in Heavy Earth Moving Machinery Operators of Metalliferous Mines* N. P. Kulkarni, A. P. Vanerkar, P.D. Zade, and A. S. Kamavisdar **Environmental Monitoring & Assessment, Springer, Volume no. 143**, 239-245, 2008.

*Studies On Monitoring Of Respirable Dust In Lime Stone Mine Area – A Case Study*, Atul P. Vanerkar, Prashant D. Zade, Nikhil P. Kulkarni, and A. Kamavisdar\* **Indian Journal of Environmental Protection**, Vol 26 (8): 724-727, 2006.

*Analytical Studies On Lead Pollution in Road Side Soil Samples from Raipur and Bhilai, Chhattisgarh State, India.*  
A. Kamavisdar, R. M. Patel and S. R. Khanwalkar, **Communications In Soil Science and Plant Analysis**, Athens, GA, USA” 36, 2209-2218, 2005.

*Nitrate Pollution in Aquatic Systems of New Chhattisgarh State, India.*  
R. M. Patel, A. Kamavisdar and K. S. Patel, **Indian Journal of Environmental Protection**, Vol. 24(9), 673-677, 2004.

*Flow Injection Spectrophotometric Determination of Iodide in Environmental Samples.*  
A. Kamavisdar and R. M. Patel, **Mikrochimica Acta**, Vol. 140, 1-2, 119-124, 2002.

*Extractive Determination of Vanadium in Fungi Samples.*  
A. Kamavisdar, S. R. Khanwalkar and R. M. Patel, **Journal of the Chinese Chemical Society**, Vol. 49 No. 2, 191-195, 2002.

*Acidification of Surface Water in Central India.*  
Aggarwal S. G., Chandravanshi C. K., Patel R. M., Agarwal S., Kamavisdar A., and Mundhara G. L. **Water, Air and Soil Pollution**, Vol. 130, 855-862, 2001.

*Assessment of Degree of Carbonisation of Industrial Cokes/Chars With CV:FC Ratio.*  
K. S. Rao, A. Kamavisdar, R. D. Jalgaonkar, R. S. Sirociya, S. R. Khanwalkar, R. M. Meshram and R. K. Sahay, **Journal of Scientific and Industrial Research**, Vol. 60, 141-144, 2001.

*Extraction Spectrophotometric Determination of Antimony in Environmental Samples.*  
A. Kamavisdar, **Chemia Analityczna**, 45, 893-899, 2000.

*Extraction Spectrophotometric Determination of Vanadium in Industrial Waste Water.*  
A. Kamavisdar and K. S. Patel, **Journal of the Chinese Chemical Society**, Vol. 47, No. 4, 1161-1164, 2000.

*Assessment of Sulphur Content of Coal From Saoner Coal Mines.*  
A. Kamavisdar and R. S. Sirociya, **Indian Journal of Environmental Health**, Vol. 42, No. 3, 138-141, 2000.

*Concentration of Mercury and Other Heavy Metals in Central India.*  
K. S. Patel, R. M. Patel, A. N. Tripathi, C. K. Chandravanshi, P. K. Pandey, S. Chikhalikar, A. Kamavisdar, and S. G. Aggarwal, In the book “**Mercury Contaminated Sites: Characterisation Risk Assessment and Remediation**” [R. Ebinghaus et. Al (Eds.)], Springer-Verlag, Berlin 487-500, 1999.

*A New Method For The Determination of Iron In Drinking Water.*  
A. Kamavisdar and K. S. Patel, **Indian Journal of Environmental Health**, Vol. 39 No. 4, 308-314, 1997.

#### LIST OF PUBLICATION IN NATIONAL/INTERNATIONAL CONFERENCES

*Vibration Exposures in Industries*, Atul P. Vanerkar, S K. Lokhande, P. D. Zade, N. P. Kulkarni, A. S. Kamavisdar and D. M. Dharmadhikari Indo Italian Conference on Emerging Trends in Waste Management Technologies (ETWMT-09) held on 3-4 December 2009 at Pune.

*FIA speciation of iron in rain water samples in central India* Anand Kamavisdar, Rajmani Patel, and Atamnand Tripathi 42<sup>nd</sup> IUPAC Congress, Glasgow UK, 2-7 August 2009 accepted as poster.

*Studies on Gender Involvement in Mining Industries and Sustainable development, Anand Kamavisdar, Asia Pacific Peace Research Association Conference at Hualien, Taiwan from September 10 –12, 2009.*

*Education on Green Chemistry for Sustainable Environmental Health-Need and Significance, A. Kamavisdar, International IUPAC Conference on Green Chemistry, Moscow-St. Petersburg, Russia 14-19 Sept. 2008. (Accepted).*

*Open Cast Mining Operations and Impact on Ecological Health and Peace of Mining Communities and Tribal Populations in Central India. A. Kamavisdar International Conference on Building Sustainable Futures, Enacting Peace and Development by International Peace Research Association at Leuven, Belgium, 15-19 July 2008. (Presented).*

*Analytical Studies on Iron Contamination in Ground Water Samples and Possible Health Risk Analysis from CG State, Central India by A. Kamavisdar and R. M. Patel, Second World Conference on Risk Analysis at Guadalajara, Mexico, on 8-11 June 2008 (Accepted).*

*Studies on Respirable Dust Samples from Lime Stone Mining Industry in Central India Anand Kamavisdar and Atul P. Vanerkar, National Conference on Innovations in Science and Technology towards Industrial Development, January 4-5, 2008, RCET, Bhilai CG India (invited key note talk).*

*Heavy Metals and Their Determination by Atomic Absorption Spectrophotometry.*

Anand Kamavisdar, **Key note lecture in Technovision 2007 National Conference on Recent Developments in Green Chemistry, October 26-27, 2007 at SSCET, Bhilai, CG India**

*Water Pollution and Impacts on the Environmental Health and Heritage of Baster District, Central India, Anand Kamavisdar, VIIth International Conference on Science, Arts and Culture “Science for the cultural heritage, Losinj, Croatia 28-31 August 2007 (accepted).*

*Physico-Chemical Characteristics Of Water Samples From Iron Ore Mining Belt Of Central India*

A. Kamavisdar, Rajmani Patel and Shitikanth R. Khanwalkar accepted as poster presentation at **41<sup>st</sup> IUPAC Congress, Torino, Italy, 5-12 August 2007 ( ID 785).**

*Studies On Lead In Soil Samples Of Chhattisgarh State, India.*

A. Kamavisdar, and R. M. Patel International Congress on Analytical Sciences, 25-30 June 2006, Moscow (accepted).

*Analytical Studies and Flow Injection Methodological Speciation of Iron in the Water Samples from Bastar District, Chhattisgarh State, India*

A. Kamavisdar, R. M. Patel , S. R. Khanwalkar and A. R. Joshi, **29<sup>th</sup> International conference on solution chemistry at Portoroz, Slovenia 21-25 August 2005, (222, E-oral, Presented) .**

*Analytical Studies on Mercury in the Surface Water Samples of Chhattisgarh State, India.*

A. Kamavisdar and R. M. Patel, **6<sup>th</sup> International Conference on Mercury as a Global Pollutant held at Minamata, Japan on 15-19 October 2001 (poster no. A-0438).**

*Spectrophotometric Determination of Bismuth in Flue Dust Materials.*

S. R. Khanwalkar, A. N. Tripathi and A. Kamavisdar, **2<sup>nd</sup> National Seminar cum Workshop of ISCAS at CMRI, Dhanbad held on 21-22 September 2001. (Accepted)**

*Studies on Heavy Metal Pollution in Fog Water Samples from Raipur, Chhattisgarh, India.*

A. N. Tripathi, S. G. Aggarwal, and A. Kamavisdar, **Ind International conference on Fog and Fog Collection at Toronto, Ontario, Canada, 15-20 July 2001, page no. 93-96.**

*Deposition Of Lead in Urban Soil, dust, Rain and Surface Water of Raipur City.*

A. Kamavisdar, **6<sup>th</sup> International Conference on Acidic Deposition “Acid Rain 2000” held at Tsukuba, Japan 10-16 December 2000. (poster no. P3-54, page 90).**

*Burning of Fossil Fuels and Health Hazards in Central India – A Critical Approach.*

A. Kamavisdar, **6<sup>th</sup> International Conference on Acidic Deposition “Acid Rain 2000” held at Tsukuba, Japan** 10-16 December 2000. (poster no. P11- 1, page 296).

*Extraction Spectrophotometric Determination of Vanadium with Potassium Periodate, Crystal Violet and N-phenylbenzohydroxamic Acid.*

A.Kamavisdar, **Pittsburgh Conference “Science for the 21<sup>st</sup> Century” at New Orleans, LA, USA** on 12-17 March 2000 (poster no. 2030 p).

*Analytical Approaches in Coal Metrology Relative to Thermal Power Plants in Indian Scenario.*

A. Kamavisdar, **The Fourth Princess Chulabhorn International Science Congress “Chemicals in the 21<sup>st</sup> Century” held at Bangkok, Thailand** 28<sup>th</sup> November-2<sup>nd</sup> December 1999 (P-83) page 194.

*Comparative Study of Coal Quality of Some Major Coal Based Industries Near Nagpur MS.* A. Kamavisdar, **National Science Day, Pt. Ravishankar Shukla University, Raipur 492010 CG**, 27-28 February 1998.

*Specific Method for the Spectrophotometric Determination of Bismuth.*

A.Kamavisdar, **National Science Day, Pt. Ravishankar Shukla University, Raipur 492010 CG**, 27-28 February 1997.

*Flow Injection Analysis Determination and Speciation of Iron in Water.*

A. Kamavisdar and K. S. Patel, **84<sup>th</sup> Indian Science Congress**, held in Delhi on 3-8<sup>th</sup> January 1997 (Abstract no. 132, presented).

*Mercury Pollution in Water of Central India.* K. S. Patel, A. Kamavisdar, S. Chikhalikar and S. K. Chandravanshi, **International Conference “Mercury as a Global Pollutant” held in Hamburg, Germany** 4-8 August 1996, page 194.

*Some Chemico-Analytical Studies Related to Lead Pollution and its Medico-Metrological Effects on Vegetation and Human Behavior.* A.Kamavisdar, **National Science Day, Pt. Ravishankar Shukla University, Raipur 492010 CG**, 27-28 February 1996.

*Lead Pollution Along The Great Eastern Road Of Central India.*

A. Kamavisdar and K. S. Patel, **32<sup>nd</sup> Annual Convention of Chemists, Organised by Indian Chemical Society**, held at Jaipur on 26-29 December 1995 (Abstract no. IND 19, presented).