

## Biographical Outline of Dr. Krishan Lal

**Affiliation** INSA Senior Scientist, Former Director, National Physical Laboratory, New Delhi-110 012, India.  
Phones: +91 11 2574 1733; EPBAX 2574 6910-12 / Extn 2297 (Office);  
+91 11 2583 6680 (Home)  
Fax: +91 11 2572 6938, 2572 6952  
Email: klal@mail.nplindia.ernet.in

**Date of Birth** 15th March 1941

<b>Academic Career</b>	M.Sc. (Physics)	Agra University, Agra	1961	Ist Divn, IInd Position
	Ph.D.	University of Delhi, Delhi	1969	

### Research Specialization

Solid State Physics; Materials Characterization; Crystal Growth & Defects; High Resolution XRD; Instrumentation; Quality Management, Certified Reference Materials and Data for Materials R&D.

### Contributions in Research, Development, Coordination and Collaborations

Dr. Lal's research work on lattice imperfections in crystals, X-ray diffraction physics, and crystal growth has led to deeper understanding of the nature of real materials and their interaction with radiation and external fields.

During Dr Lal's Directorship, NPL had shown an impressive enhancement in R&D output, remarkably improved IPR protection, consistent increase in calibration services and resource generation.

25 Certified Reference Materials for quality of water, gas mixtures, pesticides and silicon powder have been produced under a project involving ~30 top Indian laboratories under Dr Lal's leadership.

Dr Krishan Lal has been actively involved in promoting activities related to scientific data and its application for accelerated growth of science and technology and its applications in societal development, particularly in economically weaker societies. He one of the few active scientific leaders in India who are deeply involved with issues such as open access and information society. He has been Chairperson of Indian National Committee for CODATA and had organized the CODATA International Conference and General Assembly in New Delhi in 1998. Presently, he is a Vice President of CODATA.

Dr. Krishan Lal is Honorary Professor, Indian Institute of Technology (IIT), Kanpur. He was Visiting Professor, IIT Delhi, Adjunct Professor, IIT Kharagpur and Visiting Professor, Jamia Millia Islamia, New Delhi. He was IBM India Fellow at Watson Research Centre, New York; Visiting Professor, University of Tokyo, Tokyo, Technical University Darmstadt, Darmstadt and Sr. Visiting Scientist at Physikalisch-Technische Bundesanstalt, Braunschweig. He has been invited by leading laboratories in USA, Europe, Asia and Australia for lectures and scientific discussions.

### Honours/Awards, Memberships of Academic Bodies, Organization of Conferences and Publications

(i) Honorary Doctorate, Russian Academy of Sciences, 1998; (ii) Editor, Zeitschrift für Kristallographie –1996-2003; (iii) Vice President, Executive Board, ICSU Committee on Data for Science and Technology (CODATA) for 2004-2008; earlier Member, CODATA Executive Board (2000-2004); (iv) Fellow, Indian National Science Academy (INSA), New Delhi; (v) Fellow, National Academy of Sciences' India, Allahabad; (vi) INSA D.S. Kothari Memorial Lecture, 1996; (viii) Member, Asia-Pacific Academy of Materials, 1997-; (ix) Member, Asia Pacific Network on Materials Evaluation Technology, Korea, 2002-; (x) Secretary & Treasurer, Asian Crystallography Assoc. (1996-98); (xi) Chairman, Indian National Committees for CODATA 1991-1994;& 2000-2003; (xii) Chairman, Indian National Committee for

Crystallography, 1994-1997; (xiii) President, Indian Crystallography Assoc. 2003-; (xiv) President, Ultrasonic Society of India 2002- .

Dr. Krishan Lal has been Chairman of six International Symposia/Workshops/Schools. He has delivered more than 100 invited talks in reputed national/international conferences in India and abroad.

Two international Conferences/Workshops, sponsored by IUCr and others had been organized to felicitate Dr Lal on the occasion of his 60<sup>th</sup> and 62<sup>th</sup> Birth Anniversaries and proceeding were published.

Dr Krishan Lal has: edited 8 Books/Volumes, published 22 Invited Papers in journals / Chapters in Books, more than 100 research papers in refereed journals and 7 patents to his credit.