



## **Brief Profile of Dr. Sharad Kumar Jain, Director General, NWDA (Additional Charge)**

- Career Objective** : **To contribute towards the use of water for the benefit of society.**
- Education** :
- Doctor of Philosophy**, University of Roorkee, Roorkee (now IIT, Roorkee), 1990;
  - Master of Technology**, (Hydraulics & Water Resources), IIT, Kanpur, 1982;
  - Bachelor of Engineering** (Civil), University of Roorkee, 1980.
- Current Address** :
- Director General, National Water Development Agency (NWDA), 18-20 Community Centre, Saket, New Delhi-110017;
  - Scientist G, National Institute of Hydrology (NIH), Roorkee - 247667, Uttarakhand, India.
  - E-mail: [s\\_k\\_jain@yahoo.com](mailto:s_k_jain@yahoo.com) or [skj.nihr@gov.in](mailto:skj.nihr@gov.in)
  - Tel office: + 91 1332 249202,
  - Fax: +91 1332 272123.
- Experience** :
- R & D and teaching experience of more than 35 years in the field of hydrology and water resources. Research interests include Surface Water Hydrology; Water Resources Planning and Management; and Application of Advanced Tools such as Artificial Neural Networks; Remote Sensing; GIS; and Decision Support Systems.
  - Developed a software package for Reservoir Analysis. Also contributed to work related with International and Indian Standards.
  - Organized about 35 short-term courses and International Conference on Water, Environment, Energy, and Society (WEES-2009) in January 2009.
  - Developed a web-based course on “Hydrologic measurement and analysis of data” for NPTEL (E-learning program of IITs).
  - Consultant to Atomic Energy Agency (Vienna) under their IWAVE program.
  - Handled administrative duties.

**Employment History:**

- Jan 2013-Till date : Scientist G, NIH. Also Head (Water Resources Systems Division), Head (Climate Change Cell) and Coordinator, Western Himalayan Regional Center (Jammu) of NIH.
- Apr 2012-Dec.2013 : Scientist F, NIH. Also, Head (Water Resources Systems Division), Head (Climate Change Cell) and Coordinator, Western Himalayan Regional Center (Jammu) of NIH.
- Apr 2009-Apr 2012 : Professor, NEEPCO (North Eastern Electric Power Corporation Ltd.) Chair at the Indian Institute of Technology, Roorkee.
- 1999 - 2009 : Scientist F and Head of Water Resources Systems Division, NIH, Roorkee.
- 1999 - 1982 : Scientist E (1991-99), Scientist C (1991-86), Scientist B (1986-1982), NIH.

**Long-term Foreign Assignments:**

- June 2002- June 2003 : Visiting faculty at the Department of Civil and Environment Engineering, Louisiana State University, USA.
- Apr 1993-Apr 1994 : Post-Doc. fellow at the National Research Institute for Earth Science and Disaster Prevention, Japan, on a fellowship of Science & Technology Agency, Government of Japan.
- May 1988-Sep 1988 : Danish Hydraulic Institute, Denmark, training on the 'SHE' hydrologic model.
- Jan 1984-Jun 1984 : Visiting Scientist, University of Texas, Austin, USA, and University of Birmingham, UK.

**Books Authored:**

- 1) **Water Resources Systems Planning and Management**, by S K Jain and V P Singh and Elsevier, The Netherlands, 2003;
- 2) **Hydrology and Water Resources of India**, by S K Jain, P K Agarwal and V P Singh, and Springer Verlag, The Netherlands 2007;
- 3) **Risk and Reliability Analysis: A Handbook for Civil and Environmental Engineers** by V P Singh, S K Jain, and Aditya Tyagi, ASCE, 2007;
- 4) **Water Resources Systems**, published by The Institution of Engineers (I), 2013.

**Edition of Books/ Encyclopaedia/ Audio-visual Programs:**

Five Chapters in Books/Encyclopaedia: 27; Audio-visual programs – 4.

**Papers Contributed:**

Technical Papers: 230; International Journals: 64, National Journals: 45, Citations: 2700, H-index 24, i10-index 42 (Google scholar).

**Involvements in Externally Funded Projects:**

Completed 10 externally funded research projects and 18 consultancy projects

**Professional Affiliations:**

Member, International Board of Advisors of the Journal of Hydrologic Engineering, ASCE, USA (2005 - till date).

Member of Editorial Board (Jan. 2010 – till date), Hydrological Processes Journal, Wiley-Blackwell, UK;

Member of Editorial Board of Indian Society for Hydraulics Journal;

Editor, Journal of Indian Water Resources Society (1999 – 2002) and (2009-11),

Member of Editorial Board, Journal of Indian Society for Hydraulics;

Fellow of Institution of Engineers (I); Fellow of Indian Association of Hydrologists; Fellow of Indian Water Resources Society;

Member, International Association for Hydrological Sciences;

**Membership of Scientific Committees:**

Chairman – Expert Appraisal Committee (River Valley and Hydroelectric Projects), Ministry of Environment & Forests and Climate Change;

Member - Project Appraisal & Monitoring Committee (Hydrology and Cryosphere), Ministry of Earth Science;

Water Resources Department 1:1 of Bureau of Indian Standards;

Sub-Committee of Special Committee on Interlinking of Rivers;

Expert Committee on "State Spatial Data Infrastructures and its Applications" set up by the Department of Science & Technology;

Task Force on Water, Scientific Advisory Council to Prime Minister (2013-14);

Scientific Steering Committee of the Global Water Systems Project, University of Bonn, Germany (2009-15),

Expert Reviewer of IPCC Working Group I, 5<sup>th</sup> Assessment Report,

Member of many National Committees on Water Resources.

.....