

Brief Bio data

Dr. S.K. Goyal

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Educational Qualification

- B.E. (Pulp & Paper), IIT Roorkee, 1987, 3rd Rank
- M.E. (Chemical), IIT Roorkee, 1989, Gold Medalist
- Ph.D. (Engineering Science & Technology), RTM Nagpur University, Nagpur, 2002

Research Experience (1987- Feb 2013)

[1987-89: IIT Roorkee, and Jan 1990- till date ... CSIR-NEERI, Nagpur]

His research experience is in multi-disciplinary areas which include quantification and minimization of uncertainties associated with ambient air monitoring (monitoring method sensitivity analysis, audit system development), preparation of emission inventory for industrial, vehicular & areas sources, and air quality modeling for different sources of air pollution leading to air resource management with the overall objective of improvement in air quality.

He has significantly contributed to various projects relating to Carrying Capacity based developmental planning studies for different topographical zones leading to sustainable development of the region like Doon Valley, National Capital Region, Jamshedpur Region and Greater Kochi Region), environmental impact assessment for different industrial sectors (refinery, power plants, paint industry), assimilative capacity based industrial development planning studies, stack emission monitoring with QA/QC and performance evaluation of pollution control systems, energy recovery from distillery and hospital wastewaters through bench and pilot scale studies using fixed film reactor technology, paper manufacturing process optimization (pulp, bleaching & paper making) and waste management for non-conventional raw materials based pulp and paper mills with economic evaluation.

He has also conducted air quality review studies in India, Thailand, Indonesia, Sri Lanka, Myanmar and Nepal under the project on Review of GEMS/Air Monitoring Stations in South East Asia Region for UNEP/WHO, Geneva.

Area of Work (March 2013 - August 2016) as Head, EIRA Division, NEERI HQ

- Environmental Impact Assessment Studies for Different Sectors/ Regions
- Assimilative Capacity based Sustainable Industrial Development
- Carrying Capacity based Regional Development Planning

Current Area of Work (Sept 2016 onwards...) as Head, CSIR-NEERI-Delhi

- Air Pollution and Water/ wastewater related studies
- EIA/Regional EIA, Assimilative/Carrying Capacity, Sustainable Development related studies

Publications

Based on the research work carried out, he has published more than 100 research papers in peer reviewed international and national journals/conference proceedings & book chapters. He has contributed 120 technical reports, for various projects and delivered more than 120 lectures/ talks in different international/ national conferences/ workshops/ training programs.

He has authored three technical guidance documents, 1) “Air Quality Monitoring Network Design Considerations for Developing Countries” for WHO-SEARO, New Delhi, 2) ‘Urban Air Pollution in India: Status and Challenges’ for Indian National Science Academy (INSA), New Delhi, and 3) “Contribution of Energy Sector to NO_x Emissions” for Indian Nitrogen Group (ING), New Delhi.

Honors/Awards

He has bagged Prof. R.C. Singh Prize for Greatest Practical Importance Paper by the Institution of Engineers (India) in December 2006 for the paper “Optimization of Aerated Lagoon System Treating Municipal Wastewater”.

Also bagged Shrimati Saroma Sanyal Memorial Prize for by the Institution of Engineers (India), Kolkata in December 2016 for the paper titled “Assessment of Uncertainty in Ambient NO₂ Concentration Determination and its Minimization through Application of Lab Scale Findings”.

He has bagged four gold medals during his graduation/ post-graduation. He is IRCA Certified Lead Auditor for ISO 9001-2008, and has also been awarded with Certificate of Merit in Leadership Development Program (LDP) conducted by CSIR-HRDC, Ghaziabad in 2009.

Besides scientific pursuits, he has been promoting use of Rajbhasha Hindi, particularly in scientific community for better understanding. He was honored with “Rajbhsha Samman” for carrying out scientific work in Rajbhasha Hindi by the Nagar Rajbhasha Karyanvyan Samiti (PSU-Narakas), Vadodara coordinated by Gujarat Refinery, Vadodara in Oct 2011.

Academic Interests/Coordination/ Committee Member

He has supervised more than 30 M.Sc./ M.Tech. Students from different institutes/ universities on different environment related aspects. He was faculty member for PG course conducted by CSIR-NEERI on Environmental System Modeling and Optimization for the subject – Air & Noise Quality Control/Management during 2009-2013. He is also life member of 12 professional bodies/societies (like IEI, IIChe, ISCA, IAEM, IPHE, IAAPC etc.), and reviewer for some international and national journals.

He has been examiner for 6 PhD students from IIT Roorkee, JNU and Jalgaon University, besides regular examiner for M.Sc & B.Sc. Environmental Science students of Nagpur University. Presently Four students are pursuing PhD under his guidance.

He is also member of several committees including the one constituted by Hon’ble NGT and Supreme Court on different environmental issues related to TTZ Area & others. He is also member of Expert Appraisal Committee (EAC) of MoEF&CC and Technical Committee member of QCI-Nabet (EIA related), and Board Member of QCI-Nabet.

He has been **Member Secretary** of Nagar Rajbhasha Karyanvyan Samiti (Narakas, also known as Town Official Language Implementation Committee, TOLIC), Nagpur under the Ministry of Home Affairs (Rajbhasha Vibhag), Govt. of India during 2010-2013, which included more than 150 offices of Central government, PSUs and Insurance Companies located in Nagpur city.

Moto: “F.I.T. INDIA for Environmentally Sustainable Atma Nirbhar Bharat”