



## Professor Anil Kumar Singh

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### Education, Work Experience and Recognitions

Prof. Anil Kumar Singh earned PhD from IIT Kanpur in 1978. After post-doctoral stints at Florida State University, University of Hawaii, and Columbia University, he returned to India in June 1982 to join the University of Roorkee as a Lecturer in chemistry. In January 1983, he moved to IIT Bombay as Lecturer in Chemistry and subsequently he rose there to the rank of full Professor in 1990. In 1989, he spent a year as visiting scientist at the University of Montreal, Canada. In June 2017, he retired from the Department of Chemistry, IIT Bombay as the Highest Academic Grade Professor.

With teaching, research and administrative experiences spanning over decades, Prof. Singh embodies a wealth of expertise and experience. As an academician and researcher of international repute and as a seasoned administrator, Prof. Singh has been associated at the highest management and governance levels with several academic and research organizations, government bodies, and scientific societies in the capacity of advisor/expert/office bearer/member, etc.

At IIT Bombay, besides teaching and research, Prof. Singh has also served in various other capacities; some of which include: Head of Chemistry Department (1993-96), Chairman of IIT-JEE (2004), Convener-PGAPEC (1998-2000), Dean of Academic Programmes (2004-2007), Convener of IIT Gandhinagar Cell (2008-09).

Prof. Singh has been actively involved in assessment and review groups of various higher education institutes, R&D bodies, administrative and policy making entities, professional and civil society in multiple capacities, to drive organizational excellence. As member of the Board of Governors, Governing Council, Board of Directors, University Court and Executive Council/Academic Council/ Senate, etc. of many institutions, Prof. Singh has been involved in advancements and development of higher education and policy formulation across the country. He has also served as Director of CSIR-Regional Research Laboratory, Jorhat (2002), and as Vice-Chancellor of two Universities – Bundelkhand University (2007) and the University of Allahabad (a central University, 2011-2014).

Prof. Singh has been a mentor to a large number of graduate and undergraduate students. He has authored numerous research papers and scholarly articles in reputed journals. His research interests span the areas of organic and bioorganic chemistry, natural products, biomolecular chemistry, medicinal chemistry, photochemistry and photobiology and nanoscience. He has richly contributed to the understanding of structure and mechanism of function of retinal-based biological photoreceptors, particularly bacteriorhodopsin and photocontrol of structure and reactivity of organic and bioorganic systems. He has also contributed towards design of fluorescent probes, organic reactions in organized assemblies, phototriggers for biomolecular caging, design and synthesis of antiradical compounds, radioprotectants, vitamin A analogues, excited state chemistry of linear polyenes, novel photochemical routes to heterocycles, and the design and development of organic nanoparticles of biomedical and opto-electronic significance.

Prof. Singh is one of the most highly honoured and recognized academician in India. His academic, research and administrative achievements are duly recognized by educational and research organizations, government and corporate bodies, academies and scientific societies, by awards and honours, memorial/keynote and invited lectures, invited contributions to special issues of journals, editorial board member of journals, participation in national and international scientific peer review groups of various organizations, election to the Fellowship of prestigious Science Academies and Societies, and association with scientific bodies as president/vice president/council member/advisor, visiting professorship.

He is an elected Fellow of the - National Academy of Sciences-India, Indian Academy of Sciences, Maharashtra Academy of Sciences, Institution of Chemists, Indian Chemical society, and the Royal Society of Chemistry, U.K. He is recipient of Prof. P.K. Bose Memorial Award (1999) and Prof. J.N. Mukherjee Memorial Award – 2009 from the Indian Chemical Society; and the 'Award for Excellence in Chemical Sciences – 2009' from the Indian Society of Chemists and Biologists. He has been Member of - Department of Atomic Energy (DAE) Specialist Group (R&D Sector) – Advanced Chemical Sciences, Project Advisory Committee – Basic Sciences - I of Board of Nuclear Sciences (DAE), and Board of Directors of KOP Research and Development Centre Bangalore. He has been the President of - Physical Sciences Section of 80<sup>th</sup> Annual Session of National Academy of Sciences-India, and Chemical Sciences Section of 94<sup>th</sup> Session of the Indian Science Congress Association, and Scientist-in-Charge of Organic and Biochemistry of Annual Conventions of Chemists of the Indian Chemical Society (2006-10). He has been Member of the Board of Governors of Indian Institute of Management Lucknow, Governing Council of Inter-University Accelerator Centre New Delhi, Executive Council of Central University of Gujarat, Court of North-Eastern Hill University Shillong, Chairman of Academic Committee of Gujarat Technical University, Academic Council of Central University of Himachal Pradesh and University of Rajasthan, Governing Council of Atomic Energy Education Society, Senate of SV National Institute of Technology, and Inter-Academy Joint Science Education Panel. He has participated in Planning Commission Subcommittee on Institutional Management and Leadership development in Higher Education, Expert Working Group on Higher Education–12<sup>th</sup> FYP of MHRD, ACCESS, Working Group of Higher Education–12<sup>th</sup> FYP (UGC). He has numerously participated as Member/Chairman of committees for Research Degree/Faculty Board/Board of Studies/Academic Audit, UGC-SAP/CAS Advisory Committees, Visitor's Nominee, Peer group member for recruitment of Faculty and Scientists for several institutions, and reviewer of research papers and projects from India and abroad for several organizations., UPSC-PT Board, IIT-JEE Reforms Committee, NAAC, DST-TIFAC Committee for review of autonomous institutions in areas of chemical sciences, materials sciences and engineering, etc.

He has been on the Council of National Academy of Sciences-India, Chemical Research Society of India, Indian Chemical Society, Indian Society of Radiation and Photochemical Sciences, National Advisory Board of Indian Society of Chemists and Biologists, Executive Committee of Indian Photobiology Society, President of Indian Society of Radiation and Photochemical Sciences. He has been Member of the Executive Board (National representative) of Asia and Oceania Society for Photobiology, Japan. He has been on the Advisory Board/ Council of many other important International and National Conferences in India and abroad. He is widely travelled and delivered large number of invited/keynote lectures in conferences and in teaching and research centres of higher learning.