

PROF. P.K. SEN, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

Professor P.K. Sen graduated from the Indian Institute of Technology, Kharagpur. He commenced his professional career at Durgapur Steel Plant, Hindustan Steel Limited. Subsequently, he joined Jadavpur University, Kolkata, West Bengal as a Professor, where he was teaching at the Department of Metallurgical Engineering. He then proceeded to France as a CNRS fellow. On his return, he joined Engineers India Limited, New Delhi, where he had worked for more than 25 years. He headed the Research & Development, Environmental Engineering and Information Technology as a Group Head. He has spearheaded the development of several technologies which were scaled up as well as commercialized. Some of the notable commercialization activities based on in-house R&D include setting up of flotation columns at Hindustan Zinc, integrated leaching/ solvent extraction plants, membrane gas separation technology at ONGC, Hazira, single step lead zinc smelting at Iran, liquid phase catalyst development for sour gas removal, etc. Several of the projects commercialized had a focus on commercializing environmentally cleaner technologies. He is associated with the Steel Technology Centre at the Indian Institute of Technology and is the earlier chairman of the center. As a part of his thrust on development of environmentally cleaner technologies for the steel sector, he has evaluated several contemporary iron making technologies with a specific focus on exergy analysis, carbon reduction and abatement processes and sector specific energy consumption. His other interests include New Process Development & Design, scale up of metallurgical processes in ferrous and non-ferrous metallurgy and process optimization. He has more than 85 publications and holds 10 patents. He has served as a UNIDO expert and is the winner of DSIR and Petrotech awards. He continues to serve as program expert in several national committees including one on carbon abatement measures.