

Bio of Dr Rajender Gupta



Dr Gupta is currently a Professor in Chemical and Materials Engineering Department at the University of Alberta, Canada. He has BTech (Hons) in Chemical Engineering from IIT Kharagpur in 1972. He joined the Research and Development department of Engineers India Ltd. During study leave from EIL, from 1979-1983 he completed his PhD from the University of Newcastle, Australia.

At the University of Newcastle he led several research projects on coal pyrolysis, combustion, advanced characterization of coal in CRC for black Coal at the University of Newcastle. At the University of Alberta, he led the Clean Coal Technology theme for the Canadian Centre for Clean Coal/Carbon and Mineral Processing Technologies (C5MPT). Here, he was involved in projects related to gasification and pyrolysis of solid fuels, coal beneficiation, coal to liquid, control of emissions from coal combustion including greenhouse gases. He also led projects on the solid sorbents for carbon dioxide. His current research involves thermal and hydrothermal conversion of biomass to bio-oils and upgrading of oilsands bitumen.

He was the Academic Advisor for Coal Upgrading Program at The Chinese University of Mining Technologies for five years and an Advisory Board Member of Virtuhcon, a Centre of Excellence at the Technical University of Freiberg, Germany. He is on the organizing/technical committee of several international conferences and on the editorial board of a number of international peer reviewed journals. In 2017 at Clearwater Clean Energy Conference in Florida, he was awarded Percy Nicholls Award jointly by Power division of ASME and Coal Division of SME for notable scientific and industrial achievements in the field of solid fuels. His extensive research of more than 35 years on coal beneficiation, combustion/gasification, ash formation, Hg and carbon capture and clean coal technologies in Australia and Canada has been presented in more about 350 papers and several book chapters including more than 150 research articles in peer-reviewed international journals.
