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## Green Chemistry: Applications and Sustainable Development

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Mr. Dilip G.Udas is a graduate from The University Department of Chemical Technology. He started his career with Indian Dyestuff Industries in the year 1972. He moved on to join Gharda Chemicals, a company known for its innovative R&D where he worked for almost 20 years. He specialized in the process development and commercialization of several new agrochemicals and other speciality chemicals developed and manufactured by the Company. During this period the company won several National and International Awards.

In 1998 he started Speciality Molecules Pvt Ltd where he was the principal shareholder. In 10 years this company grew significantly and developed Manufactured and Exported several Pyridine Derivatives. The company won The Acharya P.C.Ray award given by The ICMA for the Development of indigenous Technology. This company is today recognized and known as an important player in Pyridine intermediates.



Recently Mr Udas has started Ultra Conserve Pvt Ltd, a company which specializes in the design of products and services that assist the chemical industry in reducing their environmental impact. This is done through the reduction of water, fuel, and power consumptions by innovative methodology.

He is also a visiting faculty at the UICT since the year 2001 and has contributed to the welfare and wellbeing of the students through teaching and through financial contributions for the improvement of the facilities. In the year 2008 he was given the Distinguished Alumnus award by the UICT Alumni Association.

### ABSTRACT

Over the years the green chemistry has by and large been considered as a means to replace the existing processes/products by environmentally friendly alternatives. Unfortunately this happens at a rather late stage in the product life cycle. Ideally the greatest economic and environmental benefits of the applications of Green Chemistry should be realized in the early stages of process/product life cycle.

Several drivers that have caused this paradigm shift towards Green Chemistry are discussed. Applications through premanufacturing, manufacturing, product delivery and product use i.e. essentially all stages of product are important. Interactive contributions from several disciplines are necessary to achieve this ideal.

Efforts from academic community-research students and professors, manufacturing companies, and policy makers have to combine effectively for a greener future.