



## "Green Chemistry Education at Pre-Graduation Level: Necessity or Need ?"

Sanjay K. Sharma, FRSC

Department of Chemistry, JECRC University, Jaipur-303905, Rajasthan, India

Green Chemistry<sup>1</sup> is based on a set of radical ideas (a set of 12 Scientific Principles) that overlap with the principles of sustainability and propose a modern version of chemistry that is less toxic, less hazardous, highly efficient and non-polluting<sup>2</sup>. We have started teaching Green Chemistry at College and University Level in India, but lacking at Pre - Graduation (K12 Level) stage . Green Chemistry must be initiated at Pre-Graduation Level, then only it'll serve its real purpose at higher education level. Teenage students are particularly sensitive to environmental issues and so, adding the basics of Green Chemistry may also serve to boost their interest and motivation to learn chemistry at pre-university level and beyond. It is very much needed to convey the students that it is more of a 'chemistry FOR the environment', i.e. a more environmentally friendly chemistry rather than a 'chemistry OF the environment', i.e. environmental chemistry that explains nature and the impact of man on the nature. In the present talk, we are trying to advocate the same.

**Keywords:** Pre-Graduation, Green Chemistry, Sustainability, K12 Level Education, Curriculum.

### Ref.:

1Anastas, P.T. and Warner, J.C., 1998. Green Chemistry: Theory and Practice, New York: Oxford University Press.

2Sharma, S.K. and Mudhoo, A., 2011. Green Chemistry for Environmental Sustainability, CRC Press Taylor & Francis, USA as an associate editor of Journal of Porous Materials.