

LES RENCONTRES DE LA CHIMIE DURABLE

Au croisement de la chimie verte et du développement durable

Current status and perspectives of green chemistry in India

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The inception of untamed processes catering the materialistic needs of the mankind has put to stake the ecology as a whole, subjecting the whole living system to an unwarranted threat of pollution, climate change and depleting natural resources. In order to combat this menace, alternatives to the already existing processes are being sought after in order to achieve sustainable development considering the three pillars of sustainability that are, equity, ecology and economy. This effort comprises Green Chemistry, which aims at designing and utilizing matter and energy in a way so as to increase their performance and value while protecting human health and the environment. Green Chemistry is an innovative, non-regulatory, economically driven approach toward sustainability. Several industries such as Pharmaceutical and Cosmetic Industry, Textile Industry, Food and Beverage Industry, Leather and tannery industry, Packaging Industry, Petroleum Industry, Energy Sector, Electronics sector are adapting Green Chemistry to develop processes that are ecologically benign. In the Indian scenario, with one of the fastest developing economies, a huge population and an important position both in manufacturing and service sector, India has a crucial role to play in developing and implementation of Green Technologies. Several green technologies such as enzymatic depilation of leather, natural dyes and microbial dye degradation have been developed and being adapted. Premier educational and research institutes such as Indian Institute of Technology, Kharagpur are striving to develop technologies which are more efficient and eco-friendly putting equal impetus both on ecology and economy thereby ensuring a sustainable development. A greater cooperation and collaborations in the global arena promoting exchange of ideas and expertise will go a long way in innovations and developing such technologies which is the call of the hour.



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