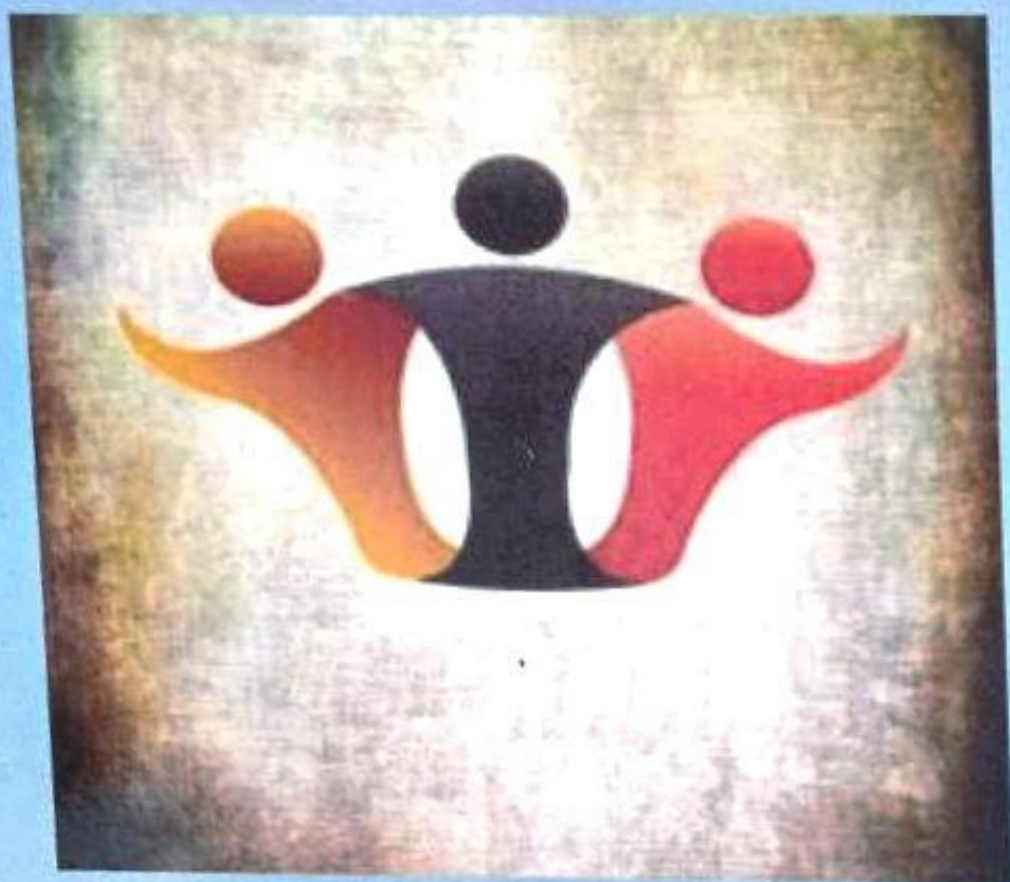


सह-अस्तित्व : एक वैचारिकी



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Co- Existence of Environment & Development with Green Chemistry

Akbare Azam*

The definition of Green Chemistry starts with the concept of invention and design. This means we, scientists and technologists, must take into account from the start what we are looking for, what kind of product, how we are going to design its manufacture and its use. The impact of chemical products and chemical processes must be included as design criteria. Hazard considerations for initial materials and final products must also be included in the performance criteria. Another aspect of the definition of green chemistry is in the phrase "use and generation of hazardous substances".

We must think in advance if use of the product is going to be dangerous (workers, consumers) or if it is going to generate environmental pollution through their use or after their practical application (as waste). Rather than focusing only on those undesirable substances that might be inadvertently produced in a process, green chemistry also includes all substances that are part of the process. Also, green chemistry recognizes that there are significant consequences to the use of hazardous substances, ranging from regulatory, handling and transport, production of waste and liability issues. It is important to stress that green chemistry addresses both chemical products and the processes by which they are manufactured. The emphasis is clearly on design of greener products and processes. Green chemistry embodies two components:

- (1) Efficient utilization of raw materials and the elimination of waste, and
- (2) Health, safety and environmental aspects of chemicals and their manufacturing processes.

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