

Potential influence and mitigation of climate change on surface water quality

Climate change synergically associated with population overgrowth and our consumption behaviour has been and will degrade our Earth more than its capacity, if nothing is done in the near future. Many elements affect the natural dynamics of the lithosphere, hydrosphere, biosphere, and atmosphere and some are starting to be seen as common in our daily life, even though they should not be. Some of these can be highlighted as unwanted chemical substances due to discharge to the soil and/or water and sediments, and anthropogenic fertilization of water bodies (i.e., eutrophication). In order to ensure a healthy environment, not only for the present generation but also for generations to come, the only way to move forward is with appropriate remediation techniques/methodologies of affected ecosystems using Sustainable Engineering Practices. Engineers need to act now, for a sustainable and healthy environment in the future.