Science and technology have helped human and social evolution move to higher levels, increase life expectancy, raise living standards and change daily patterns, as well as conquer a great deal of physical knowledge which can help us consciously shape the course of the future as we see fit. However, it seems that we have come close to what many like to call a “tipping point” in our evolution, where the negative side-effects of science and technology are becoming visible on a global scale, affecting the whole population (e.g. environmental pollution, climate change), while our vast knowledge and capabilities have brought us closer to obliteration (e.g. weapons of mass-destruction). The use of science and technology has often inflicted many problems and side dangers, but it is only through science and technology that we will find solutions to these problems and new ways of conduct. However, without a reassessment of our priorities, our personal and collective ethical values, and without a change in our social patterns and our international affairs, the risk of self-destruction becomes more and more irrefutable. It is imperative that our social maturity and our collective thinking evolves in order to keep up with our technological progress, and act as a preventive shield towards our own flawed, competitive, destructive, and often near-sighted human nature. It is crucial that we raise awareness regarding current and future problems, increase our level of responsibility towards the environment and future generations, and most importantly, raise the level of critical thinking which will allow us to question and challenge the established social norms and current rules of conduct. It is therefore vital to make some changes within our basic educational system in order to incorporate meaningful social principles with an emphasis on humanitarian and environmental values, and help students shape a conscious ethical ideology for themselves in order to evaluate and deal with the aforementioned issues successfully. Only through personal transformation and increased ethical sensitivity can people, and therefore science as well, take a more humanistic and environmental friendly approach in order to solve the dire problems that we, the future generations and our planet are facing.