



LAUDATO SI'
CONGRESO INTERNACIONAL
DE ECOLOGÍA INTEGRAL Y MEDIO AMBIENTE
EN HOMENAJE AL PAPA *Franciscus*
— UCAM —

2.1 Environmental Engineering and Sustainable Development

2.1.1. Science and Technology for Atmospheric protection

Climate is a common good. Climate is our planet's answer to several effects such as: Earth's orbital conditions with respect to the Sun and other planets, solar and cosmic radiation level at some point and the Earth crust evolutions that affect to the gaseous layers that envelopes it. The real influence of the human activity on climate is subject of debate among the scientific community. But up to date, there is a scientific consensus very consistent which indicates that we found ourselves in a **disturbing warming of the climate system**. This change affects life here on Earth.

Our Pope's call on the encyclical letter "Laudato Si'", do intends to raise awareness about the special needs in reference **to make changes in our lifestyle, resource and energy consumption, energy production and, also, material goods consumption**, in order to make efforts to fight this global warming or, in some way, the human causes that generate or increase it.

The Session is focused in boosting awareness level through a more profound knowledge of the phenomena that provoke such warming, the standing position that, from Science, would be more accurate to maintain in everyday life, cities and economical system, as well as the impact over the ecosystems.

2.1.2. Science and Technology for Water protection

Apart from Air, Water is the main and natural resource that nurtures and sustains life in our planet. **Water resource protection to avoid its**

pollution and increase its availability will be the workhorse for future human generations. Today, water scarcity is the principal source of international conflicts, together with the energetic resources covered in the previous Session.

The Pope said that “drinkable and clean water is a matter of primary importance”. For this reason, now more than ever, Science and Technology and, especially in those environments in which Catholic may influence, play a decisive role concerning such protection. **Research areas aimed at prevention and correction of water contamination as well as efficient water treatments to make it drinkable must be a priority area** and may give viable results at the short term.

The Session must identify and establish a **strategic and coordinated action plan in terms of scientific and Technical research, as well as a real plan of communicate and disclosure findings to the general public** in order to decisively influence in lifestyle and consumption changes that allow water resources protection.