Special Session

on

"**Environmental Modelling**"

Abstract

Air pollution and especially the reduction of air pollution to some acceptable levels, is a high relevant environmental problem, which is becoming more and more important in the last decade. This problem can successfully be studied only when high-resolution comprehensive mathematical models are developed and used on a routine basis. The modern high-speed computers can be used to solve in real time such a huge computational tasks which arise in the corresponding computer models. In other hand, they help in order to remove some non-physical assumptions which were commonly made several years ago only in order to make the models tractable at the computers, which were available at that time. The new high-speed computers are to be used in order to treat successfully such tasks by applying parallel computations and a careful utilization of the cache memory of the computers. The exploitation of the new fast computers in the efforts to avoid non-physical assumptions and, thus, to develop and run more reliable and more robust large scientific models will be among the major topic of a special session on "Environmental Modelling" but other paper in this topic are welcome too.