



## **International Centre for Earth Simulation (ICES)**

R. Bishop

President, ICES Foundation, Geneva, Switzerland

High Performance Computing is currently deployed in several centers for climate research, but not at the levels needed to achieve substantial success on a global basis, given the complexity of the problem. A quantum leap in capabilities will be necessary to handle next-generation climate models that integrate newly emerging sciences, high-resolution grids, and voluminous observational data from satellites and sophisticated ground devices. Bishop will discuss efforts to build an International Centre for Earth Simulation (ICES) that takes an holistic systems approach, and that has the competence and resources to achieve new insights in this new decade, and is capable to influence public policy wrt to weather, climate, environment and disaster risk reduction.