

Environmental Modeling

Co-Chair: **Hugh Monteith**, Hydromantis Inc.

Co-Chair: **Ferdous Ahmed**, Rideau Valley Conservation Authority

Abstract

This session deals with Environmental Modeling, which, in the broader sense, can be defined as concepts or computational procedures dealing with any aspects of the environment. However, for the purpose of this conference, the meaning of the term has essentially been defined by the submitted papers, which focus mostly on the movement of water and contaminants therein.

The papers of this modeling session deal with subjects as diverse as hydrology and hydrodynamics, data analysis and numerical methods, lake circulation and porous media flow, soils and pharmaceutical products, as well as existing conditions and potential future scenarios under climate change.

We shall see how the modeling efforts of science can be used to support policy – how the policy is implemented. Translating science into a language understandable to non-experts is a challenge. In addition, convincing policy makers to take action based on science which may be vaguely understood by various stakeholders is a difficult process. We shall see how local regulating agencies deal with the conflicting interest and opinion of various stakeholders. Ultimately, the benefit of scientific research is dependent on its proper application.