

Symposium on *Integrated Surface Water and Groundwater Modeling*

Sunday, June 22, 2003

in prelude to the

World Water and Environmental Resources Congress 2003

June 23-26, Philadelphia, PA USA

Integrated Surface Water and Groundwater modeling is rapidly becoming an integral part of the management of our global water resources. It attempts to simulate the entire land phase of the hydrologic cycle, including

- Precipitation
- Evapotranspiration
- Overland flow
- Channel flow and Structures
- Unsaturated sub-surface flow
- Saturated groundwater flow

Integrated Surface Water and Groundwater modeling can be used for the analysis, planning and management of a wide range of water resources and environmental problems related to both surface water and groundwater, including:

- Surface water impact from groundwater withdrawal
- Conjunctive use of groundwater and surface water
- Wetland management and restoration
- Aquifer vulnerability mapping with dynamic recharge and surface water boundaries
- Floodplain studies and Flood Forecasting
- Impact studies for changes in land use and climate
- Non Point Source Water Quality (eg TMDL) studies

This exciting symposium will include presentations by a wide range of experts in the field of integrated surface and groundwater modeling.

Last session of the day will be a **Panel Discussion** with Dr. J. Obeysekera (South Florida Water Management District), Dr. Peter Huyakorn (HydroGeologic Inc.), and Dr. Anders Refsgaard (DHI Inc.).

Attendees are encouraged to ask questions and post opinions to the panel. We hope for a lively discussion.

