

International Symposium on Isotope Hydrology: Revisiting Foundations and Exploring Frontiers - CN225



Monday, 11 May 2015 - Friday, 15 May 2015

IAEA - Vienna International Centre

Scientific Programme

The objectives of the symposium are to:

- (a) review and revisit the foundational principles of isotope hydrology in the light of the current state of knowledge;
- (b) review recent developments in analytical instrumentation and applications of isotopes in water and climate studies; and
- (c) identify research, analytical and training requirements for a wider use of isotope hydrology.

Atmosphere-Hydrosphere Interactions

Isotope applications in atmospheric and climate sciences.

Groundwater Resources, Age Dating, and Geochemical Evolution

Isotope tracers in groundwater resources evaluation, age dating, and geochemical evolution.

Surface Water Isotopic Studies

Isotope studies of surface waters and water balance evaluation.

Laser Spectroscopy Advances

Development of new isotopic applications using laser spectroscopy.

New Approaches and Tools in Isotope Sciences.

New developments and approaches in the use of isotope tools in hydrology.

Environmental Studies

Application of environmental isotopes in integrated hydrological and ecological impact studies

Nutrient Cycles and Contamination

Nutrient cycling and contamination in surface and groundwater

Isotopic and Hydrological Modeling

Development and application of isotopic and hydrological models

Analytical Methods

Isotopic Analytical Methods and Development

Isotopes in Precipitation

Studies of Isotopes in Precipitation and Isoscape Developments

Paleoclimate and Paleohydrology

Isotope studies of past climate and hydrologic reconstructions

Water Pollution Studies

Isotope tracers in water pollution studies

Noble Gas Isotope Studies

Application of noble gases and tritium-He to hydrologic studies

CRP

Associated CRP Meeting

IAEA Technical Cooperation

IAEA Technical Cooperation Program