

**Registration Form**

Name – Surname

Institution

Function

Address

Town – Postal code

Phone/fax

E-mail

Nationality

Signature

Please return this registration form to ARPA SIM

Personal information will be treat according to the Italian law N° 675/96.

**Contact information**

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**Venue and participation**

The school will be held at ARPA – SIM in Bologna, from 29 November to 3 December.

The school is open to all professional people involved in hydrogeological risk prevention and management. Young scientists, Ph.D students as well post-graduates who still are in their training process are also welcome in order to improve their knowledge of the multi-disciplinary problems and operational aspects.

The maximum number of participants is limited to 50, so a formal application is need. Selection will be done on “first come first served” base. procedure will be applied. Preference will be accorded for CARPE DIEM and RISK AWARE partners. Those interested in applying for admission should fill-in the application form and send it by email or by fax.



**Accomodation and cost**

There is no fee for the school but students are expected to cover their own travel and accommodation costs.



**International School on Hydrogeological Risk Prevention and Management**

**Session one  
 Rainfall estimation and forecast.**

29 November – 3 December 2004

Viale Silvani, 6  
 Bologna



## Aims and Introduction

The school is aimed to provide an advanced training on the multi-disciplinarily components that have to be considered in the prevention and management of hydrogeological risk forced by meteorological conditions.

The school will be organised over a three years period in order to address all the different topics related to the hydrogeological risk prevention and management.

In each school session a particular aspect of complex chain we are analysing will be presented and discussed:

- Session one  
Meteorological aspects
- Session two  
Hydrological and geological aspects
- Session three  
Risk management and prevention

This school is co-organised by CARPE DIEM, a RTD project funded under the 5th FP, and RISK AWARE, an INTERREG CADSES project.

## Topics - Session one – Rainfall estimation and forecast.

This session will focus on the different aspects of precipitation estimation and precipitation forecast.

The relative skill of the different “sources” of rainfall data will be analysed and discussed in order to understand potentials and limits of the measurement tools used and of the techniques described. Fundamentals of numerical modelling at different time scales, as well as all different aspects that contribute to the rain forecast will be analysed.

An overview of hydrological modelling aspects and their interaction with the rainfall input field will be discussed.

## PROGRAMME

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning					
Afternoon					

	Introduction – general aspects
	Remote sensing estimation of precipitation – radar
	Remote sensing estimation of precipitation – satellite
	Nowcasting of precipitation
	Hydrogeological risk – application aspects
	Numerical Weather Prediction

During the first session of the school different aspect related to rainfall estimation and forecast will be presented by international level scientists.

