

# Registration Information

The number of participants is limited to approximately 30, the registration deadline is not later than June 20th, 2009. The Summer School will release a certificate to each student testifying their active participation. Moreover for the Italian participants it has been requested the accreditation in the project of the Continuum Education in Medicine (ECM) recognised by the Ministry of Health.

## Registration fees include

- Access to all the lectures
- Fulltext CD-ROM
- Coffee breaks
- Lunches
- Bus transport to JRC Ispra and return

## Payment details

The registration fees are:

- until April 30th 2009: 200 € + 40 € (VAT)
- from May 1st 2009: 250 € + 50 € (VAT)

## Payments (Euros) must be done via bank transfer to:

Bank name: BANCA INTESA BCI

Address: Via Filippo A. Gualterio 105, 00139 Roma, Italy

Beneficiary: AIRP

IBAN: IT97 K030 6905 1060 7194 4210 192

SWIFT: BCITITMM

In the reference of the bank transfer you must indicate your Name and the sentence: "Registration fee Summer School 2009"

Registration will be accepted only when a copy of the payment receipt will be sent to the secretariat by e-mail or Fax.

A complete Registration Form has to be filled in line on the website [www.RadioactiveWasteManagement.org](http://www.RadioactiveWasteManagement.org)

Radioactive waste is produced in relationship with nuclear and radioactive activities, including the use of radioactive materials in medical applications and research activities, as well as in relationship with industrial activities using natural occurring radioactive material, such as the mining and milling of naturally radioactive ores and the generation of nuclear energy. Radioactive waste is potentially hazardous to health and it needs to be managed in order to protect the humans and the environment.

The School is dealing with fundamental aspects and current research trends in radioactive waste management and nuclear decommissioning. It is scheduled over a three days course and it is suitable either as refresher course or as an introduction to newcomers. For the first day of the course, specific topics will be analyzed, including the characterization of wastes of various nature and origin; the principles on waste management, including policy, regulatory issues and aspects of stakeholder engagement. During the second day international experts will lecture about actual waste management experiences successfully carried out in the respective European countries. On the third day of the course, the participants will be offered the opportunity to be trained on the methodologies for waste characterization, as well as to discuss the rationale for environmental monitoring, and at the same time the participants will have the opportunity to explore the decommissioning and the related waste management solutions, with a visit to the laboratories of the JRC Decommissioning Project.

The Summer School venue, for the first two days of the course, will be at the prestigious Napoleonic Hall of the University of Milan, while for the third day it will be at the facilities of the leading European Joint Research Centre in Ispra

The School brings together a number of international experts on radioactive waste management and nuclear decommissioning and the participants will have ample opportunities for one to one conversation and discussion with such experts.

## Criteria and Approaches for Radioactive Waste Management and Nuclear Decommissioning

An International Summer School  
Milano and Ispra, Italy | 8 – 10 July 2009



UNIVERSITÀ DEGLI STUDI  
DI MILANO



[www.RadioactiveWasteManagement.org](http://www.RadioactiveWasteManagement.org)

# Syllabus

# Lecturers

## Chairs

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### **Marie Claire Cantone**

Università degli Studi di Milano, INFN

### **Phil Metcalf**

International Atomic Energy Agency IAEA

### **Celso Osimani**

EU Joint Research Center

## Committee

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### **Eduardo Gallego**

Universidad Politecnica de Madrid, Spain

### **Joerg Kaulard**

GRS, Germany

### **Thierry Schneider**

CEPN, France

## Secretariat

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### **Daniele Giuffrida**

EU Joint Research Center

### **Federico Tavola**

Università degli Studi di Milano, INFN

### **Ivan Veronese**

Università degli Studi di Milano, INFN

## Contacts

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## Wednesday, 8 July 2009

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9.30 a.m. – 6.00 p.m.

### **Radioactive waste and risk associated**

Sources of radioactive waste, waste types and classification; radiation health risks and effects of low doses; radiation protection in decommissioning, waste from medical activities, from nuclear fuel cycle, from decommissioning nuclear plants and arising from radioactive materials in the natural environment.

## Thursday, 9 July 2009

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9.30 a.m. – 6.00 p.m.

### **Principles in waste management**

Waste management policy and regulatory issues; ethical aspects and stakeholder engagement in RWM; different disposal approaches and disposal site characterization; the concept of surface and geological disposal.

### **European Experiences**

Experience of waste management and disposal in France, Germany, Spain and Sweden; experience in the UK in developing national policy.

## Friday, 10 July 2009

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8.30 a.m. – 6.00 p.m.

### **Practice in waste management and research**

Modelling computation approaches and techniques of waste characterization; decommissioning and waste management programme of a research reactors centre; measuring of radioactivity in the environment; approaches to decommissioning in Germany and Spain.

## Visit to the JRC Decommissioning project

### **Angela Alberici**

ARPA Lombardia, Italy

### **Marie Claire Cantone**

Università degli Studi di Milano and INFN, Italy

### **Roger Coates**

Safety Consultant, IRPA Vice President for Congress Affairs, UK

### **Luigi di Pace**

ENEA, Italy

### **Torsten Eng**

SKB Swedish Nuclear Fuel and Waste Management Co, Sweden

### **Eduardo Gallego**

Universidad Politecnica de Madrid, Spain

### **Anna Giovanetti**

ENEA, Italy

### **Daniele Giuffrida**

EC-JRC, Ispra

### **Ilpo Huhtiniemi**

EC-JRC, Ispra

### **Joerg Kaulard**

Gesellschaft für Anlagen-und Reaktorsicherheit (GRS) mbH, Germany

### **Phil Metcalf**

IAEA

### **Celso Osimani**

EC-JRC, Ispra

### **Andrea Ravazzani**

EC-JRC, Ispra

### **Piero Risoluti**

Nuclear Consultant, Italy

### **Alejandro Rodríguez Fernández**

ENRESA, Spain

### **Thierry Schneider**

CEPN, France

### **Ivan Veronese**

Università degli Studi di Milano and INFN, Italy

### **Franco Voltini**

IRCCS Ospedale Maggiore Policlinico, Mangiagalli e Regina Elena, Italy