



**TRAINING COURSE**  
**“Late Phase Nuclear Accident  
Preparedness and Management”**  
**September 15-19, 2014, Gomel, Belarus**

**ORGANISED BY:**

**NUCLEAR PROTECTION EVALUATION CENTRE (CEPN, FRANCE)**

**&**

**THE INSTITUTE OF RADIOLOGY (RIR, BELARUS)**

**IN COOPERATION WITH:**

**THE EUROPEAN PLATFORM ON PREPAREDNESS  
FOR NUCLEAR AND RADIOLOGICAL EMERGENCY  
RESPONSE AND RECOVERY (NERIS)**

**HOSTED BY:**

**THE INSTITUTE OF RADIOLOGY (RIR),  
FEDYUNINSKOGO STREET 16, 246000 GOMEL, BELARUS REPUBLIC**

**In the framework of the EC FP7 “PREPARE” Project (Work Package 7)**



## **Introduction**

The training course on “**Late Phase Nuclear Accident Preparedness and Management**” is organised by the Nuclear Protection Evaluation Center (CEPN - France) and the Institute of Radiology (RIR - Belarus), in the framework of the EC FP7 “PREPARE” Project in cooperation with the European platform NERIS on emergency and post-accident preparedness and response.

The course will take place from **September 16-19, 2014** in Gomel, Belarus and is limited to 24 participants.

The course offers a comprehensive overview of the various dimensions and challenges of the long-term rehabilitation process after a nuclear event, and also provides practical elements for the implementation of late phase countermeasures for dealing with rural and urban contaminated environment. A particular attention is given to “stakeholder engagement” approaches to initiate preparedness processes on one hand and to favour the implication of the inhabitants in their own protection as well as in decision making process related to the redeployment of social and economic activities in the affected areas in case of an accident on the other hand.

The course is based on international recommendations and on the material produced and developed in several European and international projects: ETHOS, SAGE, FARMING, CORE, EURANOS and NERIS. It is made of lectures, practical working sessions and discussions. It also relies on the practical experience of Belarussian organisations in the management of the Chernobyl consequences as well as on the first lessons from the management of the consequences of the Fukushima accident.

## **Objectives**

The main objective of the course for late phase nuclear accident preparedness and management is to provide principles and practical guidance for the key players involved in the preparedness for rehabilitation of living conditions in contaminated areas in the aftermath of a nuclear/radiological accident. The course will offer a comprehensive overview of the various dimensions and challenges of rehabilitation. It will include also practical elements for the implementation of countermeasures for managing long-term contaminated rural and urban environments, notably through the organization of a direct dialogue with local stakeholders living in the areas affected by the Chernobyl accident.

## **Main course topics**

- Characterisation of long-term exposure and feedback experience
- Principles and criteria for the management of post-accident situations
- Management options for contaminated food production systems
- Management options for contaminated water resources
- Radiation monitoring & health surveillance
- Long-term preparedness and stakeholder involvement
- Insights on Fukushima long term post-accident issues

## Target public

- Technical and radiological advisors (radiological protection and safety authorities)
- Health physicists
- Health and food safety authorities
- Staffs responsible for the overall organisation and policy of rehabilitation
- Civil protection officers
- As well as all other interested persons

## Registration

Registration is available at the following link: <http://www.planetReg.com/E22773362934>.

**Deadline: 15 July 2014**

There is no registration fee, however, participants are expected to cover their own travel and subsistence costs (including meals and hotel room).

## Venue & hotel accommodation

The course is held at the Institute of Radiology (RIR), Fedyuninskogo street, 16, 246000 GOMEL, Belarus Republic.

Information on accommodation will be given after registration (different standings will be available).

## More information

<b>Scientific co-ordination</b>	<b>For information and registration</b>
<b>Pascal Croüail</b>  CEPN 28 rue de la Redoute 92260, Fontenay-aux-Roses, France  e-mail : <a href="mailto:pascal.crouail@cepn.asso.fr">pascal.crouail@cepn.asso.fr</a>	<b>Sandra Biguenet</b>  CEPN 28 rue de la Redoute 92260, Fontenay-aux-Roses, France  e-mail : <a href="mailto:sandra.biguenet@cepn.asso.fr">sandra.biguenet@cepn.asso.fr</a>
<b>NERIS Website : <a href="http://www.eu.neris.net">www.eu.neris.net</a></b>	

**Monday, 15 September**

*Arrivals – Transfers from airports to Gomel*

**Tuesday, 16 September**

**WELCOME SPEECH (V. Averin, RIR)**

**WHAT IS AT STAKE IN THE LONG-TERM AFTER A NUCLEAR ACCIDENT?  
FEEDBACK EXPERIENCE**

- **The post-Chernobyl situation in Belarus – (V. Chernikov, Department of Mitigation of the Consequences of the Catastrophe at the Chernobyl NPP – Minsk, Belarus)**
- **The post-Chernobyl situation in Norway – (L. Skuterud – Norwegian Radiation Protection Authority, NRPA, Norway)**
- **ICRP Publication 111: Protection of People Living in Long-term Contaminated Areas after a Nuclear Accident or a Radiation Emergency – (J. Lochard – CEPN, ICRP)**
- **The post-Fukushima situation in Japan and first lessons learned from the Fukushima Dai-ichi NPP accident aftermath and recovery – (N. Ban – University of Tokyo, Japan)**

**Wednesday, 17 September:**

- **VISIT IN CONTAMINATED TERRITORIES**  
*(two groups: in Braguin and/or in Chechersk – organization: RIR staff)*
  - **Meetings with inhabitants and local elected people engaged in the rehabilitation of living conditions**
  - **Visit of local centres for developing a practical radiological protection culture**

Thursday, 18 September

**Morning**

**THE MANAGEMENT OF FOOD PRODUCTION SYSTEMS**

- **Chronic ingestion of radionuclides in post-accidental situations: past situations and experimental approaches (J.-M. Bertho - IRSN)**
- **The European regulation for managing contaminated foodstuff after nuclear accidents – (P. Croüail – CEPN)**
- **Feedback experiences with countermeasures, radiological surveillance and evolution of regulations (e.g. Maximum Permissible Limits)**
  - **in Belarus, after the Chernobyl accident – (V. Averin RIR, Gomel – Belarus)**
  - **in Japan, after the Fukushima accident – (N. Ban, University of Tokyo)**

**Afternoon**

- **Understanding and interpretation of WBC measurements**  
*Table-top exercise (CEPN & NRPA)*
- **The EURANOS Handbook for Food Production Systems customization**  
*Table-top exercise – (Ciara McMahon – RPII - Ireland)*
- **Technical visit of the RIR (WBC, laboratories, environmental surveillance, etc.) – (RIR staff)**

**Friday, 19 September**

**Morning**

**STATE OF HEALTH, LIFE CONDITIONS IN CONTAMINATED TERRITORIES**

- **The specialized medical care to the Chernobyl-affected population – (A. Rozhko – Director of the Republican Research Centre for Radiation Medicine and Human Ecology, Gomel)**
- **Radiological protection and health concerns of people living in contaminated territories, long term after a radiological accident – (L. Zhukovskaya – BB-RIR; P. Croüail – CEPN)**

**LONG-TERM PREPAREDNESS AND STAKEHOLDER INVOLVEMENT**

- **Improvement of Radiological Protection culture in the long term post-accidental situations: works engaged with pupils and inhabitants in Belarus – (T. Schneider – CEPN; A. Mostovenko – RIR)**

**SYNTHESIS AND EVALUATION OF THE COURSE**

**by trainees and trainers**

**Afternoon**

*Free (return to airports)*