Courses in Medical Management of Radiation Emergencies

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## registration form

**Pre-Hospital Radiation Emergency** Preparedness (PREP) (\$100)

> April 21-22, 2009 August 11-12, 2009

Radiation Emergency Medicine (REM) (\$125)

> October 21-24, 2008 January 27-30, 2009 March 3-6, 2009 April 28-May 1, 2009 June 2-5, 2009 September 15-18, 2009

### Health Physics in Radiation Emergencies (HP REM) (\$140)

February 9-13, 2009 June 8-12, 2009 August 17-21, 2009

Advanced Radiation Medicine (ARM) (\$175)

> March 9-13, 2009 September 21-25, 2009

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ORAU/ORISE and its facilities meet the intent of the Americans with Disabilities Act (ADA). Please let us know in advance of any special needs you may have by stating your request here:

The Oak Ridge Institute for Science and Education (ORISE) is a U.S. Department of Energy institute focusing on scientific initiatives to research health risks from occupational hazards, assess environmental cleanup, respond to radiation medical emergencies, support national security and emergency preparedness, and educate the next generation of scientists. ORISE is managed by Oak Ridge Associated Universities.

#### Accreditation

The Oak Ridge Institute for Science and Education (ORISE), is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians

ORISE takes responsibility for the content, quality, and scientific integrity of this ACCME activity. Respective courses are also accredited by the American College of Emergency Physicians and the American Academy of Health Physics.

Funding for REAC/TS courses is provided by the U.S. Department of Energy.

These courses are based on work performed under Contract No. DE-AC05-06OR23100 between the U.S. Department of Energy and Oak Ridge Associated Universities.

### **General Information**

Travel, food, and lodging arrangements/expenses are the responsibility of course participants. Local lodging and transportation information will be sent to registered applicants.

Please do not send incidental fee until notified of acceptance in a course. The incidental fee must be paid at least three weeks before the course begins or your name will be removed from the course roster and another applicant will be admitted.

Make checks payable to: Oak Ridge Associated Universities

A \$25 administrative fee will be charged for a cancellation received less than two weeks before a course begins. We regret that we cannot refund the fee if cancellation is received once the course is in progress.

NOTE: Incidental fees specified in this brochure are subject to change. All applicants will be notified promptly of any changes.

Non U.S. citizens should apply early. Special forms are required.

Courses fill rapidly. Early registration is recommended. Placement on a "waiting list" does not imply acceptance in any course. A new application must be submitted vearly.

Registrations are accepted by mail or online. The registration form is available online at orise.orau.gov/reacts/

#### Mail registration form to:

Gail Mack-Bramlette, Registrar REAC/TS, MS 39 Oak Ridge Institute for Science and Education P.O. Box 117 • Oak Ridge, TN 37831-0117 Telephone: (865) 576-3132 E-mail: Gail.Mack@orise.orau.gov (information only)

# missions and history

The Radiation Emergency Assistance Center/Training Site (REAC/TS) has provided the U.S. Department of Energy with expertise related to the medical management of radiation accidents since 1976. REAC/TS has responded to thousands of calls for medical advice and consultation, internal and external radiation dose assessment, and other specialized assistance to physicians, nurses, health physicists, and other emergency response personnel. REAC/TS provides direct support for the NNSA's Office of Emergency Response and the FRMAC.

REAC/TS maintains a 24/7 national and international radiation emergency response capability that includes deployable equipment, personnel experienced in decontamination and treatment of radiation injuries and illnesses, and management of the use of DTPA and Prussian Blue. Additionally, REAC/TS provides continuing medical education in its field of expertise through regularly scheduled in-house courses and specially designed off-site courses.

REAC/TS participates with the international community via its designation as a World Health Organization (WHO) Collaborating Center of the Radiation Emergency Medical Planning and Assistance Network (REMPAN) and with the International Atomic Energy Agency (IAEA) for radiation accident response. In addition, REAC/TS has provided continuing medical education and accident response in over 40 countries.

REAC/TS is part of the DOE response network. REAC/TS provides treatment capabilities and consultation assistance on a 24-hour basis, and can be reached by calling (865) 576-3131 (days), or after normal business hours contact DOE Oak Ridge Operations Center at (865) 576-1005. REAC/TS also has a cytogenetic biodosimetry capability, the "gold" standard of ionizing radiation biodosimetry, in which chromosome aberration analysis is used for ionizing radiation dose assessment.

For more information about REAC/TS or other ORISE programs, visit orise.orau.gov/reacts/ or contact REAC/TS at the Oak Ridge Institute for Science and Education, P.O. Box 117, MS-39, Oak Ridge, TN 37831-0117.

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## **COURSES IN** MEDICAL MANAGEMENT OF **RADIATION EMERGENCIES**

### **Pre-Hospital Radiation Emergency Preparedness (PREP)**

April 21-22, 2009

August 11-12, 2009

This 1<sup>1</sup>/<sub>2</sub>-day course is specifically designed for pre-hospital First Responders to include Public Safety (Fire, Police), Emergency Medical Services (EMS) personnel including Paramedics and Paramedic Instructors, and Emergency Planners who would be involved in planning, preparedness and/or response to a radiological or nuclear event. Directors and Safety Officers from Fire, Police and EMS units are encouraged to attend. The course covers pre-hospital management and handling of victims who may be irradiated and/or contaminated with radioactive materials. The course provides an introduction to ionizing radiation physics and instrumentation for detection and measurement of ionizing radiation. Demonstrations and hands-on break-out sessions are provided to ensure that students are prepared to handle patients with radiation injuries and illnesses. An introduction to population monitoring and mass casualty management is also provided. (This course can also be provided to larger groups at other venues by special arrangement.)

Maximum enrollment: 32 11.5 hours CME credit

### **Radiation Emergency Medicine** (REM)

October 21-24, 2008 January 27-30, 2009 March 3-6, 2009

April 28-May 1, 2009 June 2-5, 2009 September 15-18, 2009

This 31/2-day course is intended for Physicians, Nurses, Clinical Nurse Practitioners and Physicians' Assistants who may be called upon to provide emergency medical care following a radiological or nuclear incident. Priority registration will be given to these groups of professionals. This course may also be relevant for Paramedic Instructors but is generally not intended for pre-hospital responders. The course emphasizes the practical aspects of early hospital handling of irradiated and/or contaminated patients in the first week following an incident. The course begins with a discussion of the fundamentals of radiation physics, how to detect and measure radiation and contamination, how to prevent the spread of contamination, how to reduce radiation dose to victims and providers, and the role of Medical/Health Physicists in caring for contaminated victims. Other topics include early evaluation and treatment of the acute radiation syndrome (ARS), acute local injury, cutaneous injuries and combined injuries. Introductions to nuclear terrorism, hospital preparedness and hospital management of mass casualties are also provided. (This course can also be provided with modification to larger groups at other venues by special arrangement.)

Maximum enrollment: 24

25 hours CME credit





### **Health Physics in Radiation Emergencies (HP REM)**

February 9-13, 2009 June 8-12, 2009

August 17-21, 2009

This 41/2-day course is designed primarily for Health Physicists (HP), Medical Physicists (MP), Radiation Safety Officers (RSO) and others who have radiation dose assessment and/or radiological control responsibilities. The course presents an advanced level of information on radiological/ nuclear event reconstruction, dose assessments/estimations and integration of the physics discipline with medicine. The course provides the basis for HPs, MPs and RSOs to interact with and provide advice and recommendations to medical practitioners for the diagnosis and treatment of radiation injuries and illnesses. Topics related specifically to medicine include acute local and total body radiation exposure, internal and external contamination, combined injuries, and multi-casualty incidents involving ionizing radiation. Other topics covered include internal and external dosimetry, bioassay techniques and public information management. Demonstrations, laboratory exercises and group problem-solving sessions will complement the didactic presentations. It is recommended that participants have a basic understanding of radiation sciences before attending this course.

Maximum enrollment: 28

32 hours AAHP credit

### **Advanced Radiation Medicine (ARM)**

March 9-13, 2009

September 21-25, 2009

This 41/2-day course is designed primarily for Physicians, Nurses, Clinical Nurse Practitioners and Physicians' Assistants who desire an advanced level of information on the diagnosis and treatment of a wide range of ionizing radiation injuries and illnesses. Early interventions in the emergency department and basic physics are only briefly reviewed; therefore, the Radiation Emergency Medicine course is recommended as a prerequisite to this advanced course. If the REM course has not been completed, the student should use the REAC/TS Web site to ensure competence in physics, instrumentation, etc. Advanced topics in radiobiology and cytogenetic biodosimetry are provided. Medical management of radiation injuries and illnesses is covered in depth including the use of cytokines, stem cell transfusions and other advanced techniques. Demonstrations, laboratory exercises and group problemsolving complement the didactic sessions.

Maximum enrollment: 28

30.5 hours CME credit