



REACTS faculty & staff

Albert L. Wiley MD PhD FACR
Radiation Oncology
Medical Health Physics
Director, REAC/TS
Director, World Health Organization
Collaborating Center
Radiation Emergency Medical
Preparedness & Assistance Network

Doran M. Christensen DO
Emergency Medicine
Occupational Medicine
Associate Director/Staff Physician

Wm. Mark Hart MS RN EMT-P COHN-S
Lead Nurse/Paramedic
Education Coordinator

**Robert C. Beauchamp RN, BSN,
NREMT-P**
Nurse/Paramedic

Seaton Garrett Jr MD FACOEM
Occupational and Environmental Medicine
Staff Physician (Augmentee)

Ronald E. Goans PhD MD MPH
Senior Scientific Advisor/Radiation Medicine
MJW Corporation

Glenda Gross
Administrative Assistant

Sue Holloway RT
Radiological Technologist

Amanda Hughes
Administrative Assistant

Mark S. Jenkins MS PhD
Health Physics/Industrial Hygiene

Gordon K. Livingston PhD
Radiobiology/Cytogenetics
Technical Director
Cytogenetic Biodosimetry Laboratory

Gail Mack-Bramlette
Course Registrar

Becky Murdock
Health Physics Technician
Registry Technician

Steve Sugarman MS CHCM
Health Physics Project Manager,
REAC/TS

affiliate faculty

Luiz Bertelli, Ph.D.
Los Alamos National Laboratory
Los Alamos, NM

Alex Boerner MS CHP
Manager, Health Physics and Training
Oak Ridge Associated Universities

Zhanat Carr MD PhD
World Health Organization, Coordinator
Radiation Emergency Medical
Preparedness & Assistance Network

Dennis L. Confer MD
Professor, University of Minnesota
Medical School
National Marrow Donor Program
Minneapolis, MN

Nicholas Dainiak MD
Hematology/Radiation Medicine
Bridgeport Hospital, CT
Yale University

Ronald G. Edmond BS EdS
Public Relations
Emergency Management Laboratory,
ORISE

Daniel F. Flynn MD
Department of Radiation Oncology
Holy Family Hospital and Medical Center
Methuen, MA

Paul W. Frame PhD CHP
Manager, Professional Training Programs
ORAU

Steve Johnson BBA
Regional Response Coordinator
Radiation Assistance Program Region 2
Oak Ridge Operations Center
U.S. Department of Energy

Thomas J. MacVittie PhD
University of Maryland Cancer Center

David A. McLaughlin MS CHP
Internal Dosimetry
UT-Battelle, Oak Ridge National Laboratory

Kenneth L. Miller MS CHP CMP
Director, Division of Health Physics
Hershey Medical Center, PA

David R. Simpson PhD CHP
Associate Professor, Health Physics
Bloomsburg University
Bloomsburg, PA

Myint Thein PhD
Nuclear and Radiological Protection Division
Dosimetry Services, UT-Battelle
Oak Ridge National Laboratory

Richard Toohey PhD CHP
Senior Scientific Advisor/Health Physics,
ORISE

Joseph F. Weiss PhD
Office of International Health Studies
U.S. Department of Energy
Germantown, MD

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 23-26, 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

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 yearly.

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)

Name: Last | First | Middle Initial | Degree

Name as it should appear on badge: _____

Home Address _____

City | State | Zip Code | Country

Home Telephone: () - | Area Code | Telephone Number | Citizenship: [] U.S. [] Other:

Sponsoring Organization or Employer (nuclear power utility, health department, state or federal agency, or other): _____

Employer: _____

Occupation and Degree/Certificate (e.g., physician, nurse, etc.): _____

Work Address: _____

City | State | Zip Code | Country

Work Telephone: () - | Area Code | Telephone Number | E-mail: | Work FAX Number: () - | Area Code | Fax Number

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.

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.

reacts

Oak Ridge Institute for Science and Education
P.O. Box 117, MS 39
Oak Ridge, TN 37831-0117

NON-PROFIT ORG
U.S. POSTAGE
PAID
PERMIT NO. 80
OAK RIDGE, TN

reacts

RADIATION EMERGENCY ASSISTANCE CENTER/TRAINING SITE OAK RIDGE, TENNESSEE

COURSES IN MEDICAL MANAGEMENT OF RADIATION EMERGENCIES



Pre-Hospital Radiation Emergency Preparedness (PREP)

April 21-22, 2009

August 11-12, 2009

This 1½-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 23-26, 2009
September 15-18, 2009

This 3½-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 4½-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 4½-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 problem-solving complement the didactic sessions.

Maximum enrollment: 28

30.5 hours CME credit