



REACTS faculty & staff

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

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

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

Mollie Abbott BS MPH
Research Biologist, REAC/TS
Cytogenetic Biodosimetry Laboratory

Wayne A. Baxter ASN EMT-P
REAC/TS Nurse/Paramedic

Robert C. Beauchamp RN, BSN, CEN, NREMT-P
REAC/TS Nurse/Paramedic

Seaton Garrett Jr MD FACOEM
Occupational and Environmental Medicine
REAC/TS Staff Physician

Ronald E. Goans PhD MD MPH
REAC/TS Senior Scientific/Medical Advisor
MJW Corporation

Glenda Gross
REAC/TS Administrative Assistant

Sue Holloway RT
REAC/TS Radiological Technologist

Amanda Hughes
REAC/TS Administrative Assistant

Carol J. Iddins MD
REAC/TS Staff Physician

Mark S. Jenkins PhD CSP
REAC/TS Health Physics/Industrial Hygiene

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

Gail Mack-Bramlette
REAC/TS Course Registrar

Becky Murdock
REAC/TS Health Physics Technician
Registry Technician

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

Richard Toohey PhD, CHP
Associate Director, Independent
Environmental Assessment and
Verification (IEAV), ORAU/ORISE
REAC/TS Senior Scientific Advisor

affiliate faculty

Luiz Bertelli PhD
Los Alamos National Laboratory
Los Alamos, NM

William F. Blakely PhD
Radiation Dosimetry
REAC/TS Senior Scientific Advisor
Silver Springs, MD

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 EdD
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
Professional Training Programs
ORAU

Steve Johnson BBA
Regional Response Coordinator
Radiological Assistance Program Region 2
Oak Ridge Office
U.S. Department of Energy

Thomas J. MacVittie PhD
University of Maryland Cancer Center

Al McFee PhD
Cytogenetics
REAC/TS Consultant

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

Kenneth L. Miller MS CHP CMP
Emeritus Professor of Radiology
Penn State Hershey Medical Center,
Hershey, PA

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

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

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 17-18, 2012
September 11-12, 2012

Radiation Emergency Medicine (REM) (\$175)

November 1-4, 2011
January 31 - February 3, 2012
February 28 - March 2, 2012
April 24-27, 2012
June 5-8, 2012
August 7-10, 2012

Health Physics in Radiation Emergencies (HP) (\$200)

January 23-27, 2012
June 11-15, 2012

Advanced Radiation Medicine (ARM) (\$250)

August 13-17, 2012

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 (DOE) 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 DOE's National Nuclear Security Administration (NNSA) Office of Emergency Response and the Federal Radiological Monitoring and Assessment Center (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 17-18, 2012 September 11-12, 2012

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 incident. 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. (This course can also be provided to larger groups at other venues by special arrangement.)

Maximum enrollment: 28 10.5 hours CME credit

The Oak Ridge Institute for Science and Education (ORISE) designates this live activity for a maximum of 10.5 AMA PRA Category 1 Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Radiation Emergency Medicine (REM)

November 1-4, 2011 April 24-27, 2012
January 31 – February 3, 2012 June 5-8, 2012
February 28 – March 2, 2012 August 7-10, 2012

This 3½-day course is intended for Physicians, Nurses, Nurse Practitioners and Physician 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 initial hospital management of irradiated and/or contaminated patients through lectures and hands-on practical exercises. The course begins with a discussion of the fundamentals of radiation physics, radiation detection/measurement/identification, prevention of the spread of contamination, how to minimize 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 injuries, cutaneous injuries and combined injuries. Introductions to common sources of ionizing radiation and hospital preparedness are also provided.

Maximum enrollment: 24 24.5 hours CME credit

The Oak Ridge Institute for Science and Education (ORISE) designates this live activity for a maximum of 24.5 AMA PRA Category 1 Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Health Physics in Radiation Emergencies (HP)

January 23-27, 2012 June 11-15, 2012

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 and combined injuries. Other topics covered include internal and external dosimetry, bioassay techniques and public information management. Demonstrations, laboratory exercises and group problem-solving sessions 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

The American Academy of Health Physics (AAHP) designates this live activity for a maximum of 32 AAHP Credits.

Advanced Radiation Medicine (ARM)

August 13-17, 2012

This 4½-day course includes more advanced information for medical practitioners. This program is academically more rigorous than the REM course and is primarily for Physicians, Clinical Nurse Practitioners and Physician Assistants desiring an advanced level of information on the diagnosis and management of ionizing radiation injuries and illnesses. Advanced topics in the diagnosis and management of radiation-induced injuries and illnesses includes the use of cytokines, stem cell transplants, antimicrobials, wound care and other advanced techniques. Group problem-solving is used to thoroughly orient attendees to the management of complex cases. This course is not recommended for pre-hospital, emergency planning or non-medical personnel. Only brief reviews of health physics fundamentals and emergency department interventions are discussed. Recent completion of the Radiation Emergency Medicine (REM) course is strongly recommended.

Maximum enrollment: 28 CME credit: 30 hours

The Oak Ridge Institute for Science and Education (ORISE) designates this live activity for a maximum of 30 AMA PRA Category 1 Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.