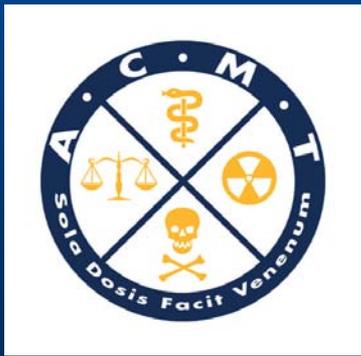


# Welcome!

Agents of Opportunity for Terrorism:  
*Toxic Industrial Chemicals (TICs),  
Toxic Industrial Materials (TIMs)  
& Toxic Radioactive Materials (TRMs)*



*AoO was originally designed by the American College of Medical Toxicology (ACMT)*



*With material from the TICs & TIMs databases at the Agency for Toxic Substances & Disease Registry (ATSDR)*

*Funding from the Office of the Director, Office of Terrorism Preparedness & Response (OTPER) at the Centers for Disease Control & Prevention (CDC)*

# *American College of Medical Toxicology (ACMT)*



*An Independent Professional Society of Medical Toxicologists*

*Independently, OTPER funded development  
of a course in Radiation Medicine at the  
Radiation Emergency Assistance Center/Training Site*



*In 2008, ACMT & REAC/TS presented a 2-day  
combined course by videoteleconference including  
information on TICs, TIMs & TRMs*

# REAC/TS

A program of the U.S. Department of Energy's  
Oak Ridge Institute for Science & Education (ORISE)

Operated by

Oak Ridge Associated Universities (ORAU)

A World Health Organization (WHO) Collaborating Center  
for the

Radiation Emergency Medical  
Planning & Assistance Network (REMPAN)

An International Atomic Energy Agency (IAEA)  
Response Assistance Network (RANet) participant

# Course Objectives

- Understand the concept of “agents of opportunity”
- Identify chemical and radioactive agents of opportunity that could be used by terrorists
- Discuss the history of these agents in individual and mass exposure situations
- Describe the major health effects of TICs, TIMs and TRMs
- Identify primary methods available to treat victims
- Understand the psychological impact of mass exposures

# *Course Contents (Day 1)*

- Module 9 – Basic Health Physics & Radiation Protection
- Module 10 – Medical Management of Acute Radiation Syndrome (ARS)
- Module 11 – Basic Radiation Instrumentation
- Module 12 – Acute Local Radiation Injury (LRI) & Case Reviews
- Module 13 – Common Sources of Radiation
- Module 14 – Management of Internal Contamination with Radioactive Materials
- Module 15 – Emergency Department Protocol for Management of Radiation Accident Victims
- Module 16 – Dressing Out & Decontamination (Demonstration)

# Course Contents (Day 2)

- Module 1 – Toxic Warfare: Looking Beyond Conventional Chemical Weapons
- Module 2 – The Clinical Neurotoxicology of Chemical Terrorism
- Module 3 – Toxic Industrial Gases as Terrorist Threats
- Module 4 – Cyanide & Fumigants
- Module 5 – Chemical Contamination of Food, Water and Medication
- Module 6 – Terrorism by Fear and Uncertainty: Delayed Toxic Syndromes
- Module 7 – After-Event Medical Monitoring: Pros and Cons
- Module 8 – Observed Behaviors During Mass Chemical Exposures

# *Who Should Participate?*

This is a familiarity course that may be of value to:

- Healthcare provider – doctors, nurses, PAs
- Pre-hospital medical providers – EMTs, EMTPs
- Emergency planners & response coordinators
- Public health officials
- Veterinarians
- Laboratorians
- Engineers, industrial hygienists, safety professionals
- Students in any of these disciplines

# Accreditation

- This activity is awarded 14 American Medical Association (AMA) Physicians Recognition Award (PRA) Category 1 Credit(s)<sup>™</sup>.
- Physicians should claim credit commensurate with the extent of their participation in the activity.
- 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.
- The Oak Ridge Institute for Science and Education takes responsibility for the content, quality, and scientific integrity of this CME activity.

# ACMT Faculty

Michael Beuhler MD FACMT

*Medical Director, Carolinas Poison Control Center (PCC)*

Mark Kirk MD FACMT

*U.S. Department of Homeland Security (DHS)/ACMT*

Charles McKay MD FACMT

*Associate Medical Director, Connecticut Poison Control Center*

Lewis Nelson MD FACMT

*New York University School of Medicine*

# REAC/TS Faculty

Albert L. Wiley MD PhD  
*Director*

Mark Jenkins PhD CSP  
*Health Physicist*

Doran Christensen DO  
*Associate Director/Physician*

Becky Murdock  
*Health Physics Technician*

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*Education Coordinator*

Sue Holloway RT  
*Radiological Technologist*

Steve Sugarman MS CHP CHCM  
*Health Physics Project Manager*

Rob Beauchamp RN BSN EMTP  
*Nurse/Paramedic*

# *REAC/TS Catalog: AoO*

<http://reactsmedia.orau.org/mediasite/Catalog/pages/catalog.aspx?catalogId=7623918d-fedc-4f66-938f-ae216f0cc8b>

REACTS

- Agents of Opportunity July 2010
- System Test

**Agents of Opportunity July 2010**

This 2-day course is designed to familiarize participants with emergency medical response to toxic exposures. This course will provide an introduction to a variety of toxic syndromes understandable by anyone involved in planning and preparations for such incidents. The course will review the medical and psychological consequences of exposures to a variety of materials.

Page: 1 of 1 Search:  Displaying presentations 1 to 8 of 8

Sort By: Name | Date ▲ | Presenter | Type Air Date:  To:  Type: All apply clear

**AoO Welcome and Introductions Day 1**

▲ Doran Christensen DO, Associate Director  
 REAC/TS  
 Scheduled  
 Tuesday, July 27, 2010, 7:45 AM EDT



**AoO-09 Basic Health Physics & Radiation Protection**

▲ Steve Sugarman CHP, Health Physics Project Manager (REAC/TS)  
 Scheduled  
 Tuesday, July 27, 2010, 8:00 AM EDT



**AoO-10 Medical Management of Acute Radiation Syndrome (ARS)**

▲ Doran Christensen DO, Associate Director  
 REAC/TS  
 Scheduled  
 Tuesday, July 27, 2010, 9:00 AM EDT



**AoO-11 Basic Radiation Instrumentation**

▲ Mark S Jenkins PhD, Health Physicist; Coordinator, Cytogenetic Biodosimetry (REAC/TS)  
 Scheduled  
 Tuesday, July 27, 2010, 10:00 AM EDT



**AoO-12 Acute Local Radiation Injury (LRI) & Case Reviews**

▲ Doran Christensen DO, Associate Director  
 REAC/TS  
 Scheduled  
 Tuesday, July 27, 2010, 11:00 AM EDT



**AoO-13 Common Sources of Radiation**

▲ Steve Sugarman CHP, Health Physics Project Manager (REAC/TS)  
 Scheduled  
 Tuesday, July 27, 2010, 1:00 PM EDT



**AoO-14 Management of Internal Contamination with Radioactive Materials**

▲ Doran Christensen DO, Associate Director



**AoO-15 Emergency Department Protocol for Management of Radiation Accident Victims**

▲ Robert Beauchamp RN, EMT-P (REAC/TS)



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**AoO Closeout**

Doran Christensen DO, Associate Director REAC/TS

Instructions-Completion of Course Critiques and Participant Assessment for CME credit

2/18/2010 4:50 PM EST Length:00:10:00 [More...](#)