



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

(FSME-13-040, April, Training, H-123)

April 30, 2013

ALL AGREEMENT STATES

**ACCEPTANCE TO THE FUNDAMENTAL HEALTH PHYSICS III COURSE (H-123)
JUNE 24-28, 2013 (FSME-13-040)**

Purpose: To provide the list of students selected for the U.S. Nuclear Regulatory Commission (NRC) Fundamental Health Physics III Course (H-123).

Background: The NRC provides the list of students and instructions to the States to help ensure that States with candidates on waiting lists will have an opportunity to fill vacated slots that may open up after this notification letter has been sent.

Discussion: Enclosure 1 is the list of students from the States selected to attend the Fundamental Health Physics III Course (H-123) scheduled for June 24-28, 2013. This course is to be held at Oak Ridge, Tennessee. Please provide the list of students and the instructions (Enclosure 2) to each individual from your program that is on the list. Enclosed for your information is a tentative schedule for the course (Enclosure 3). Students attending this course will be paid lodging and per diem. Students should immediately make their travel arrangements through Carlson Wagonlit Travel at 1-800-453-8396 and then download the Travel Application Form at <http://nrc-stp.ornl.gov/training.html>. The completed form should be sent to Brenda.Usilton@nrc.gov (preferred method) or by fax to 301-415-3502 for the NRC to issue the students travel authorization.

Students should be aware that you must be a U.S. citizen to have access on to the Oak Ridge training site. If you are a foreign student and do not have citizenship, please contact Kristy Mashburn who is the Registrar at Oak Ridge Universities at Kristy.Mashburn@ornl.gov.

We ask that you inform us of any cancellations 30 days prior to the course starting date or as soon as you are aware that the student cannot attend the course.*

* This information request has been approved by OMB 3150-0029 expiration 11/30/2013. The estimated burden per response to comply with this voluntary collection is approximately 8 hours. Send comments regarding the burden estimate to the Records and FOIA/Privacy Services Branch (T-5F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (31 50-0029), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

If you have any questions regarding this correspondence, please contact me at 301-415-3340 or the individual named below.

POINT OF CONTACT: Brenda G. Usilton
TELEPHONE: (301) 415-2348

INTERNET: Brenda.Usilton@NRC.GOV
FAX: (301) 415-3502

/RA Duncan White for/

Brian J. McDermott, Director
Division of Materials Safety and State Agreements
Office of Federal and State Materials
and Environmental Management Programs

Enclosures:

1. List of students
2. Instructions to students
3. Tentative course agenda

FUNDAMENTAL HEALTH PHYSICS COURSE III (H-123)
 JUNE 24-28, 2013
 OAK RIDGE, TN

STATE	PARTICIPANT
ARKANSAS Dept. of Health 4815 W. Markham St., Slot 30 Little Rock, AR 72206-3867	Angela Minden
CALIFORNIA Dept. of Health Services P.O. Box 997414, MS-7610 Sacramento, CA 9499-74 14	Rajwant Singh Bedi Josephine Ortego
FLORIDA Dept. of Health 4052 Bald Cypress Way, Bin C21 Tallahassee, FL 32399-1741	Steven Furnace Caleb Smith
IOWA Dept. of Public Health Lucas State Office Building, 5 th Fl. 321 East 1 2 th Street Des Moines, IA 50319	Leonardo Wardrobe
KENTUCKY Cabinet for Health & Family Services 275 East Main Street, HS1C-A Frankfort, KY 40621-0001	Chris Keffer Michele Greenwell
LOUISIANA Emergency & Radiological Services Division P.O. Box 4312 Baton Rouge, LA 70821-4312	Jessica Walker
MINNESOTA Dept. of Health 625 Robert Street N. P.O. Box 64975 St. Paul, MN 55164-0975	Lynn Fortier
MISSISSIPPI Dept. of Health 3150 Lawson Street Jackson, MS 39213	James Daniels
NEW JERSEY Dept. of Environmental Protection P.O. Box 420 Trenton, NJ 08625-0420	Jack Tway
NEW YORK STATE HEALTH Empire State Plaza-Corning Tower – 16 th FL Albany, NY 12237	Samuel Plesac William Hom

<p>NORTH CAROLINA Dept. of Environment & Natural Resources 3825 Barrett Drive Raleigh, NC 27609-7221</p>	<p>Laura Pring</p>
<p>OKLAHOMA Radiation Management Section P.O. Box 1677 Oklahoma City, OK 73101-1677</p>	<p>Michael Reid</p>
<p>PENNSYLVANIA DEP – Bureau of Radiation Protection Rachel Carson State Office Bldg. P.O. Box 8469 Harrisburg, PA 17105-8469</p>	<p>Joshua Myers</p>
<p>TENNESSEE Division of Radiological Health L&C Annex, Third Floor 401 Church Street Nashville, TN 37243-1532</p>	<p>William Barnett</p>
<p>TEXAS Dept. of State Health Services P.O. Box 149347 Austin, TX 78714-9347</p>	<p>Robert Beleckis</p>
<p>WISCONSIN Dept. of Health Services P.O. Box 2659 Madison, WI 53701-2659</p>	<p>Krista Kuhlman Emily Eggers</p>

INSTRUCTIONS TO STUDENTS

ACCEPTANCE: This is to advise you that those individuals in Enclosure 1 have been accepted for participation in the training course (H-123) Fundamental Health Physics. This course is scheduled to be presented June 24-28, 2013, at the Oak Ridge Institute for Science and Education (ORISE) training center at 1299 Bethel Valley Road, Building SC-1 Annex, Oak Ridge, Tennessee 37830.

COURSE: This course will be conducted beginning at 8:00 a.m. and end at 4:30 p.m. each day except for Friday, June 28, 2013, which is scheduled to end 4:00 p.m. A tentative outline for the course (Enclosure 3) is attached. We have also enclosed a Student Information document provided by ORISE (Enclosure 4).

LODGING AND TRAVEL: You should plan to arrive on Sunday, June 23, 2013, and depart Friday, June 28, 2013. If no convenient flights are available Friday, you may be authorized to leave Saturday, June 29, 2013; please indicate this on your paperwork. Participants must make their own lodging and travel arrangements. No rental cars will be authorized for travel. If traveling by air, you need to contact Carlson Travel at 1-800-453-8396 for airline reservations. Please complete the Travel Application Form which is located at <http://nrc-stp.ornl.gov/training.html> and return it to Brenda Usilton at Brenda.Usilton@nrc.gov (preferred method) or fax it to 301-415-3502. If you have any questions regarding the travel form please contact Brenda at 301-415-2348. To receive a copy of the travel instructions and voucher for reimbursement please visit the mentioned link. You must include a copy of your travel itinerary with your voucher reimbursement; they will not process your voucher without it.

Individuals should request a Federal Government employee rate at the hotels. The per diem for Oak Ridge, Tennessee area is 91/46/137. This means lodging/meals/not to exceed total. Tax is a separate line item on your voucher. Effective January 1, 2013, the mileage rate increased to 56.5 cents per mile.

NOTE: There is no suitable lodging within walking distance, nor reliable public transportation, from the hotels to the Training Center; therefore, students should coordinate with students who have a car, or take a taxi to and from the training center. Cellular phones and similar devices with audible capability should be disabled while classes are in session. Normal office/business attire is appropriate for students attending training.

Tentative Course Outline
Fundamental Health Physics III (H- 123)
June 24-28, 2013

DATE	TIME	TOPIC
Monday, June 24	8:00 AM	Welcome and Registration
	9:00 AM	GAMMA SPECTROSCOPY OVERVIEW
	10:30 AM	GAMMA SPECTRUM FEATURES
	12:00 PM	Lunch
	1:00 PM	Lab: Gamma-Ray Spectroscopy I (SD-210, 211, 213)
	2:45 PM	Lab: Low Energy Spectral Features (SD-257)
	4:15 PM	Demo: Well Detector Spectral Features
Tuesday, June 25	8:00 AM	SEMICONDUCTOR DETECTORS
	9:30 AM	GAMMA SPECTROMETRY I
	10:30 AM	X-RAY FLUORESCENCE
	11:00 AM	Lab: X-ray Fluorescence
	12:00 PM	Lunch
	1:00 PM	Lab: High Resolution Gamma-Ray Spectroscopy (GE-210, 211, 213)
Wednesday, June 26	2:30 PM	Lab: High Energy Spectral Features (SD-251)
	3:30 PM	Problem Session
	8:00 AM	GAMMA SPECTROMETRY II
	9:00 AM	Lab: High Resolution Gamma-Ray Spectrometry (SD-260)
	11:30 AM	Lab: Computerized Spectral Analysis (GE-21 5)
	12:00 PM	Lunch
Thursday, June 27	1:00 PM	Lab: Computerized Spectral Analysis Cont'd (GE-21 5)
	2:45 PM	Lab: Portable Gamma Spectroscopy Systems
	8:00AM	NEUTRON SOURCES
	9:00 AM	INTERACTIONS OF NEUTRONS WITH MATTER
	10:30 AM	NEUTRON DETECTORS
	12:00 PM	Lunch
Friday, June 28	1:00 PM	Lab: A) BF3 Detectors (N-100, 101, 102, 103, 106) Lab: B) Alpha Spectroscopy (APS-100, 101, 102, 103)
	2:45 PM	Lab: B) BF3 Detectors (N-100, 101, 102,103, 106) A) Alpha Spectroscopy (APS-100, 101,102,103)
	8:00 AM	Problem Session
	8:30 AM	NEUTRON ACTIVATION
	9:30 AM	Lab: A) Neutron Survey Meter Calibration (NS-108) Lab: B) Neutron Activation Analysis (NAA-103)
	10:30 AM	Lab: B) Neutron Survey Meter Calibration (NS-108) Lab: A) Neutron Activation Analysis (NAA-103)
	11:30 AM	Lunch
	12:30 PM	Lab: Neutron Fluence Rate Measurements (NAA-104)
	1:30 PM	ACCELERATORS
	3:00 PM	Exam
	4:00 PM	Course critique and Adjourn

Enclosure H

Greetings,

On behalf of Professional Training Programs' we are pleased to have you registered for our upcoming training course! The course will be held in Room 135 of the Oak Ridge Institute for Science and Education (ORISE) building at 1299 Bethel Valley Road, Oak Ridge, Tennessee. The enclosed directions and map of Oak Ridge should help you find our facility. *(Note: Please follow the directions we have provided, GPS is not exact and will take you to the ORNL guard gate.)*

Be sure to enter the building via the closest entrance to the intersection of Bethel Valley Road and Pumphouse Rd./Scarboro Rd. It is on the northwest corner of the building facing Bethel Valley Rd. On the detailed map, the building entrance is shown.

Please be prepared to show ID the first day of the course for identity purposes (driver's license, federal or state issued badge, etc). The course will start at 8:00 a.m. There will be someone at the front entrance to check you in beginning at 7:30 a.m.

ORISE is a Department of Energy (DOE) facility, so we are subject to DOE requirements. There are special briefing and badging requirements for Foreign National Participants. **If you are not a U.S. Citizen, please contact me immediately.**

We will supply you with course notebooks, notebook paper, pencils, etc. You should bring a **calculator** with exponential functions and be familiar with its use.

If you have any questions about the course, please contact me at Kristy.Mashburn@orau.org or 865-576-3576 or Tracy.Whitaker@orau.org at 865-576-6408. We look forward to meeting you!

Kristy Mashburn, Registrar
Oak Ridge Associated Universities (ORAU)
Independent Environmental Assessment and Verification (IEAV)

Enclosure I

DIRECTIONS. LODGING. & TRANSPORTATION DIRECTIONS

Oak Ridge is approximately 20 miles west-northwest of Knoxville, Tennessee. The course will be held at the Oak Ridge Institute for Science and Education (ORISE) Professional Training Programs (PTP) training facility located at 1299 Bethel Valley Road. *GPS takes you to another facility so please do not rely on it for correct directions.*

Directions for Automobile Travel to Oak Ridge:

1. Heading east on I-40 (e.g., from Nashville), take Exit 356 onto Gallaher Road (State Route 58). This exit is just east of Kingston. Eventually, Gallaher Road will become the Oak Ridge Turnpike (State Route 95).
2. Heading south on I-75 (e.g., from Lexington), take Exit 122 from I-75 and head west on State Route 61 towards Clinton. Oak Ridge is approximately ten miles west of Clinton. Just before it reaches Oak Ridge, Route 61 effectively becomes the Oak Ridge Turnpike (State Route 95).
3. Heading west on I-40/75 (e.g., from Knoxville) take Exit 376A onto State Route 162 (aka Pellissippi Parkway) into Oak Ridge. See directions from Airport for additional information.
4. Heading north on I-75 (e.g., from Chattanooga), you have two options. The first is to take Exit 364 onto State Route 95 which will eventually become the Oak Ridge Turnpike. Sections of 95 have lots of tight curves so be careful. The other option is to continue on I-75 and take Exit 376 onto State Route 162 (aka Pellissippi Parkway) into Oak Ridge. See directions from Airport for additional information.

Directions from Airport to Oak Ridge:

1. From airport, take Alcoa Highway (US 129 North) toward Knoxville for approximately 2.5 miles.
2. Take the OAK RIDGE exit to the right onto I-140.
3. Continue on I-140 for approximately 11.5 miles. You will cross interstate I-40/I-75. As you cross the interstate, watch for the Oak Ridge sign telling you to bear left. This takes you onto Route 162, better known as the Pellissippi Parkway.
4. In about 6 miles, you will go through the small Solway community that primarily consists of gas stations. Continue over the Clinch River/Solway Bridge (bearing left), and past a local cemetery that will be on the right.
5. Once past the cemetery, bear left at the sign indicating the approach into Oak Ridge. In a mile or so, this will take you onto South Illinois Avenue. Most of the Oak Ridge hotels are located on South Illinois.

Directions from Airport Directly to Training Facility:

1. After you have crossed the bridge over the river and are next to the cemetery, you will see a sign that says "Bethel Valley Rd. Closed to through traffic." That is the road that you want to take. Bear right onto Bethel Valley Road.
2. The training center will be on the left at the first intersection that you come to: the intersection of Bethel Valley Road and Pumphouse Rd. (to the left) and Scarboro Rd. (to the right). Turn left onto Pumphouse Road. There will be two entrances immediately on the left into the parking lot.
3. **IMPORTANT:** To enter the facility walk around to the front of the building. The building entrance that you must use is the one facing Bethel Valley Road closest to the intersection. Someone should be there to let you in. See attached photo. **DO NOT USE ANY OTHER BUILDING ENTRANCE!**

Directions from Oak Ridge to Training Facility:

1. Proceed south on South Illinois as if you were leaving Oak Ridge and going towards Knoxville or the Airport.
2. Bear right at the first intersection after McDonalds. You will now be heading south on Scarboro Road. Stay in the left lane since you do not want to be forced to turn right into the Y-12 Plant.
3. In approximately one mile you will come to the intersection with Bethel Valley Road (Knoxville is to the left and Oak Ridge National Laboratory is to the right). The training facility is on the south east corner of the intersection.
4. Go straight through the intersection onto Pumphouse Road. There will be two entrances immediately on the left into the parking lot.
5. **IMPORTANT:** To enter the facility; walk around to the front of the building. The building entrance that you must use is the one facing Bethel Valley Road closest to the intersection. Someone should be there to let you in. See attached photo. **DO NOT USE ANY OTHER BUILDING ENTRANCE!**



Google Earth Address of Training Facility: 35.983667 -84.222

LODGING

Be sure to ask if they have ORAU rate

<u>Candlewood Suites</u>	10206 Parkside Dr., Knoxville	865.777.0400	1.877.226.3539
<u>Comfort Inn</u>	433 S. Rutgers Ave.	865.481.8200	1.800.228.5150
<u>Days Inn</u>	206 S. Illinois Ave.	865.483.5615	1.800.329.7466
<u>Doubletree</u>	215 S. Illinois Ave.	865.481.2468	1.800.222.TREE
<u>Hampton Inn</u>	208 S. Illinois Ave.	865.482.7889	1.800.HAMPTON
<u>Hampton Inn & Suites</u>	11340 Campbell Lakes Dr., Knoxville	865.966.0303	
<u>Homewood Suites</u>	10935 Turkey Drive, Knoxville	865.777.0375	1.800.CALL.HOME
<u>Jameson Inn</u>	216 S. Rutgers Ave.	865.483.6809	1.800.JAMESON
<u>Staybridge Suites</u>	420 Illinois Ave.	865.483.0200	1.800.238.8000
<u>Westgate Apartments</u>	101-0 Gates Drive, Oak Ridge	865.481.0603	

TRANSPORTATION

Air travel reservations should be made to McGhee-Tyson Airport (TYS), Knoxville, TN, which is located 35 miles from Oak Ridge.

Airport/Airlines

<u>McGhee Tyson Airport</u>	865.970.2773
McGhee-Tyson Airport	865.342.3000

Information Directory:

<u>American Eagle</u>	1.800.433.7300
<u>American Airlines</u>	1.800.433.7300
<u>Comair</u>	1.800.354.9822
<u>Continental</u>	1.800.525.0280
<u>Delta</u>	1.800.221.1212
Delta - Lost Luggage:	1.800.325.8224
<u>Northwest Airlines</u>	1-800.225.2525
<u>United</u>	1-800.241.6522
<u>US Airways</u>	1-800.428.4322

Car Rental Agencies at the McGhee Tyson Airport

<u>Agency</u>	<u>Phone number</u>	<u>Reservations</u>
<u>Alamo</u>	865.342.3210	1.800.327.9633
<u>Avis</u>	865.342.3220	1.800.331.1212
<u>Budget</u>	865.342.3225	1.800.527.0700
<u>Enterprise</u>	865.342.1650	1.800.rent.a.car
<u>Hertz</u>	865.342.3232	1.800.654.3131
<u>National</u>	865.342.3240	1.800.227.7368
<u>Thrifty</u>	865.342.3250	1.800-367.2277

Enterprise in Oak Ridge: 608 Oak Ridge Turnpike, 865.483.8494 or 1.800.325.8007

Limousine Service

Limousine service (telephone 1.800.432.7923 or 865.671.2509) is available from the airport to Oak Ridge. Services must be reserved before you get to the airport (they would like a couple of days advance notice). They will bring you to any hotel in Oak Ridge or to our facility. Service charge is \$40.00 for one way and \$80.00 round trip. Two or more transported together is \$22 each one way.

Taxis

Yellow Cab (Oak Ridge)	865.483.4343
ABC Taxi (at airport)	865.970.4545

There is no bus service in Oak Ridge

GENERAL INFORMATION

Registration will be in the PTP classroom (Room 135). Your schedule indicates the starting time of the course. You should report to ORISE **approximately ten minutes** before this time to complete registration forms and for class to start promptly. There will be a PTP staff member to greet you at the door of the building.

The PTP website will give you complete information about all our classes, schedules, registration, and payment methods.

You may have **mail** sent to you at the following address: Your name, Course Participant, Course Title (optional), Professional Training Programs, Oak Ridge Institute for Science and Education, P.O. Box 117, MS-11, Oak Ridge, TN 37831-0117. Incoming mail service is available twice daily.

Any **telephone calls** or **messages** for you will be received between the hours of 7:30 a.m. and 4:00 p.m. at 865-576-3576. Messages will be taken for you while you are in class (emergency calls will be relayed immediately).

Oak Ridge **banks** will not cash personal or company checks for participants. We encourage you to bring traveler's checks or enough cash for the duration of your visit.

NOTE: Since we will be providing you with course notebooks and materials, you may want to allow room in your suitcases for these resources. If you prefer to ship these notebooks and handouts, boxes will be provided.

You may wish to bring **recreation equipment** for backpacking, lake fishing, camping, tennis, volleyball, basketball, or jogging. During the winter, ski facilities are open in Gatlinburg, approximately 50 miles east of Oak Ridge.

Area Attractions

- Great Smoky Mountains National Park / Cades Cove... 69 miles
- Dollywood Theme Park ... 60 miles
- Gatlinburg / Pigeon Forge / Sevierville ... 58 miles
- Ripley's Aquarium of the Smokies (Gatlinburg) ... 58 miles
- Museum of Appalachia ... 15 miles

- Norris Dam State Park ... 22 miles
- Melton Hill Dam ... 6 miles
- Blue Ridge State Park ... 27 miles
- Frozen Head State Park ... 21 miles
- Big South Fork Natural Recreation Area (Oneida) ... 71 miles
- Neyland Stadium ... 26 miles
- University of Tennessee ... 26 miles
- Oak Ridge Arboretum ... 4 miles
- The Knoxville Zoo ... 28 miles
- American Museum Science and Energy ... 1 mile
- Windrock ATV Club (Oliver Springs) ... 8 miles
- The Lost Sea (Sweetwater) ... 52 miles
- Ocoee Whitewater Rafting ... 92 miles
- Tennessee Aquarium (Chattanooga) ... 111 miles
- Cumberland County Playhouse in Crossville ... 60 miles
- Historic British Colony in Rugby
- Biltmore Estate ... 139 miles