



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

April 24, 2014

ALL AGREEMENT STATES

**ACCEPTANCE TO THE FUNDAMENTAL HEALTH PHYSICS III COURSE (H-123)
(FSME-14-040)**

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

Background: 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 23-27, 2014. 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 by the NRC. Students should also 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 you need to contact Kristy Mashburn at Kristy.Mashburn@orau.org. She is the Registrar at Oak Ridge Universities and she will give you direction as to how you can get access on to the Oak Ridge site. 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 ASTrainingandtravel.Resource@nrc.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 previously been approved by OMB 3150-01029 and was resubmitted to OMB for review of continued approval of information collection. 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 Information Services Branch (T-5F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to infocollects.resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0200), 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

/RA DWhite for/

Laura A. Dudes, 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
4. Student Information (ORAU)

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Distribution:

DMSSA r/f
Henry Lynn

ML14114A389

OFC	FSME/MSSA	FSME/MSSA	FSME/MSSA
NAME	BUsilton	ADWhite	DWhite for LADudes
DATE	04/24/14	04/24/14	04/24/14

OFFICIAL RECORD COPY

FUNDAMENTAL HEALTH PHYSICS COURSE III (H-123)
JUNE 23-27, 2014
OAK RIDGE, TN

STATE	PARTICIPANT
ARIZONA Radiation Regulatory Agency 4814 South 40 th Street Phoenix, AZ 85040	Steven Rider
FLORIDA Dept. of Health Bureau of Radiation Control 4052 Bald Cypress Way, Bin C21 Tallahassee, FL 32399-1741	Clark Connell
KANSAS Dept. of Health & Environment 1000 SW Jackson, Suite 330 Topeka, KS 66612-1365	Jessica Snook
KENTUCKY Radiation Health Program Cabinet for Health & Family Services 275 East Main Street, HS1C-A Frankfort, KY 40621-0001	Eric Perry
MASSACHUSETTS Dept. of Public Health Schrafft Center, Suite 1M2A 529 Main Street Charlestown, MA 02129	Edward Salomon
MINNESOTA Dept. of Health 625 Robert Street N. St. Paul, MN 55164	Tyler Kruse Lynn Fortier
MISSISSIPPI Dept. of Health 3150 Lawson Street Jackson, MS 39213	Logan Cowart
OHIO Dept. of Health 246 North High Street Columbus, OH 43215	Pamela Hintz
PENNSYLVANIA DEP – Bureau of Radiation Protection Rachel Carson State Office Bldg. P.O. Box 8469 Harrisburg, PA 17105-8469	Andrew Taverna
TEXAS - CEQ MC 233 P.O. BOX 13087 Austin, TX 78711-3087	Sonia Simmons

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 23-27, 2014 at the Oak Ridge Institute for Science and Education (ORISE) training center at 1299 Bethel Valley Road, Building SC-1 Annex, Oak Ridge, TN 37830.

COURSE: You should plan to arrive on Sunday, June 22, 2014 and depart on Friday, June 27, 2014. Participants must make their own lodging and travel arrangements. The course will be conducted beginning at 8:00 a.m. and end at 4:30 p.m. each day except for Friday, June 27, 2014 classes are scheduled to be completed at 4:00 p.m. If there are no convenient flights leaving on Friday then you can be authorized to leave on Saturday, June 28th. Please indicate this on your paperwork. The per diem for Oak Ridge, TN area is 88/46/134. This means lodging/meals/are not to exceed total. Tax is a separate line item on your voucher. 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. 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 <http://nrc-stp.ornl.gov/training.html> and return it to ASTrainingandtravel.Resource@nrc.gov. Information should not be sent directly to Brenda Usilton. You will also need to go to the same website to receive a copy of the travel instructions and voucher for reimbursement.

If you have any questions regarding the travel form please contact Brenda at Brenda.Usilton@nrc.gov. The Federal mileage rate for FY2014 is 56 cents per mile. You will also need a copy of your travel itinerary included in your voucher reimbursement. They will not process your voucher without it.

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 TTC courses. Enclosure 3 is a tentative agenda for the course. We have also enclosed a Student Information document provided by ORISE (Enclosure 4)

Tentative Course Outline
Fundamental Health Physics III (H-123)
June 23-27, 2014

DATE	TIME	TOPIC
Monday, June 23	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 24	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)
	2:30 PM	Lab: High Energy Spectral Features (SD-251)
Wednesday, June 25	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-215)
	12:00 PM	Lunch
	1:00 PM	Lab: Computerized Spectral Analysis Cont'd (GE-215)
	2:45 PM	Lab: Portable Gamma Spectroscopy Systems
Thursday, June 26	8:00AM	NEUTRON SOURCES
	9:00 AM	INTERACTIONS OF NEUTRONS WITH MATTER
	10:30 AM	NEUTRON DETECTORS
	12:00 PM	Lunch
	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)
Friday, June 27	8:00 AM	Problem Session
	8:30 AM	NEUTRON ACTIVATION
	9:30 AM	Lab: A) Neutron Survey Meter Calibration (NS-108) B) Neutron Activation Analysis (NAA-103)
	10:30 AM	Lab: B) Neutron Survey Meter Calibration (NS-108) 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



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.

Fundamental Health Physics III course participants: Please bring the following reference materials you received while attending the BHPT or Fundamental Health Physics I and II course:

1. 17th Edition Chart of the Nuclides
2. Radioactive Decay Data Tables
3. Radiological Health Handbook
4. Nuclide ID Gamma Catalog

Please let me know if you do not have these reference materials.

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)

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:

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).

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).

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.

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

Candlewood Suites	10206 Parkside Dr., Knoxville	865-777-0400	1-877-226-3539
Comfort Inn	433 S. Rutgers Ave.	865-481-8200	1-800-228-5150
Days Inn	206 S. Illinois Ave.	865-483-5615	1-800-329-7466
Doubletree	215 S. Illinois Ave.	865-481-2468	1-800-222-TREE
Hampton Inn	208 S. Illinois Ave.	865-482-7889	1-800-HAMPTON
Hampton Inn & Suites	11340 Campbell Lakes Dr, Knoxville	865-966-0303	
Homewood Suites	10935 Turkey Drive, Knoxville	865-777-0375	1-800-CALL-HOME
Jameson Inn	216 S. Rutgers Ave.	865-483-6809	1-800-JAMESON
Staybridge Suites	420 Illinois Avenue	865-483-0200	1-800-238-8000
Westgate Apartments	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

McGhee Tyson Airport	865-970-2773
McGhee-Tyson Airport Information Directory	865-342-3000
American Eagle	1-800-433-7300
American Airlines	1-800-433-7300
Comair	1-800-354-9822
Continental	1-800-525-0280
Delta	1-800-221-1212
Delta - Lost Luggage:	1-800-325-8224
Northwest Airlines	1-800-225-2525
United	1-800-241-6522
US Airways	1-800-428-4322

Car Rental Agencies at the McGhee Tyson Airport

<u>Agency</u>	<u>Phone number</u>	<u>Reservations</u>
Alamo	865-342-3210	1-800-327-9633
Avis	865-342-3220	1-800-331-1212
Budget	865-342-3225	1-800-527-0700
Enterprise	865-342-1650	1-800-rent-a-car
Hertz	865-342-3232	1-800-654-3131
National	865-342-3240	1-800-227-7368
Thrifty	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