

June 20, 2003

ALL AGREEMENT STATES, MINNESOTA, PENNSYLVANIA, WISCONSIN

**ACCEPTANCE TO THE BASIC HEALTH PHYSICS TECHNOLOGY COURSE (H-122)  
(STP-03- 046)**

Enclosure 1 is the list of students from the States selected to attend the August 4-15, 2003, Basic Health Physics Technology Course (H-122). Please provide the list of students and the instructions (Enclosure 2) to each individual from your program who is on the list. States with students attending this course have agreed to pay travel expenses, and, where designated, the tuition. To cover the tuition expense, each State should submit a purchase order or equivalent document, to the U.S. Nuclear Regulatory Commission (NRC), to the following address:

U.S. Nuclear Regulatory Commission  
Attn: Leah P. Tremper  
Office of the Chief Financial Officer  
Mail Stop T9 E10  
Washington, DC 20555

The NRC will, in turn, issue you a bill (invoice). If for any reason your attendee is unable to attend, please submit to us a written purchase order, or equivalent, to cancel, prior to the starting date of the course. Course attendees should be encouraged to make travel and lodging arrangements as soon as possible.

We ask that you inform us of any cancellations 30 days prior to the course starting date. This will assist us in ensuring that States with candidates on waiting lists have an opportunity to fill vacated slots that may open up after our course acceptance letters have been sent to you.

If you have any questions regarding this correspondence, please contact me or the individual named below.

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

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

***/RA by Scott Flanders for/***

Josephine M. Piccone, Deputy Director  
Office of State and Tribal Programs

Enclosures:  
As stated

STP-03-046

Distribution:

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OFFICE	STP		STP:DD						
NAME	BGUsilton:gd		JPiccone (SFlanders for)						
DATE	06/20/03		06/20/03						

**LIST OF ATTENDEES FOR THE  
HEALTH PHYSICS TECHNOLOGY COURSE (H-201)**

**AUGUST 4-15, 2003  
OAK RIDGE, TENNESSEE**

<b>STATE</b>	<b>PARTICIPANT(S)</b>	<b>PAYING TUITION/ SPACE AVAILABLE</b>
<b>IOWA</b> Bureau of Radiological Health Iowa Department of Public Health 401 S. W. 7 <sup>th</sup> St. Suite D Des Moines, IA 50309	1. Nancy Farrington 2. Kellee Kemp	1. Paying Tuition 2. Paying Tuition
<b>MASSACHUSETTS</b> Radiation Control Program Department of Public Health 90 Washington Street Dorchester, MA 02121	1. Fred Barker	1. Paying Tuition
<b>PENNSYLVANIA</b> Bureau of Radiation Protection Department of Environmental Protection Rachel Carson State Office Building P.O. Box 8469 Harrisburg, PA 17105-8469	1. Benjamin Seiber	1. Space Available
<b>TENNESSEE</b> Division of Radiological Health Department of Environment and Conservation L&C Annex, Third Floor 401 Church Street Nashville, TN 37243-1532	1. Jerry Bingaman 2. John Sullivan	1. Space Available 2. Space Available

## **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-122), "Basic Health Physics Technology." This course is scheduled to be presented August 4-15, 2003 at the Oak Ridge Institute for Science and Education (ORISE) training center on Laboratory Road, Oak Ridge, Tennessee. Attached is a course outline for persons scheduled to attend (Enclosure 3).

**COURSE:** The course will be conducted beginning at 8:00 a.m. and end at 4:00 p.m. each day except for Friday, August 15, 2003, classes are scheduled to be completed at 3:00 p.m. Students should bring an engineering or scientific calculator with them.

**LODGING:** Participants must make their own lodging and travel arrangements. The following hotels are listed for your convenience. Individuals should request a State or government employee rate at the hotels.

Comfort Inn  
433 South Rutgers Avenue  
Oak Ridge, TN  
(423) 481-8200  
1-800-221-2222

Garden Plaza Hotel  
215 South Illinois Avenue  
Oak Ridge, TN  
(423) 481-2468  
1-800-3GARDEN

**Tentative Course Outline**  
**Basic Health Physics Technology**  
**August 4-15, 2003**

**First Week**

DATE	TIME	TOPIC	INSTRUCTOR(S)	LOCATION
Monday, August 4	8:00 AM	Registration, Orientation and Photo	Staff	
	9:00 AM	INTRODUCTION TO RADIOACTIVITY	W-14/W-13 FRAME	W-14
	12:00 Noon	Lunch and Welcome		
	1:00 PM	INTERACTIONS OF RADIATION WITH MATTER	THOMAS	W-14
	3:00 PM	RADIATION SAFETY PRINCIPLES	THOMAS	W-14
	4:00 PM	Practice Test	Worthington	
Tuesday, August 5	8:00 AM	RADIATION SAFETY PRINCIPLES (Cont'd)	THOMAS	W-14
	9:00 AM	RADIATION QUANTITIES AND UNITS	FRAME	W-14
	12:00 Noon	Lunch		
	1:00 PM	BIOLOGICAL EFFECTS OF RADIATION	FRAME	W-14
	2:30 PM	Demonstration: Cloud Chamber, Lab: GM Detectors (GM-100, 103, 105, 106)	Bernhardt/Worthington	W-4
Wednesday, August 6	8:00 AM	INSTRUMENT OVERVIEW – Gas detectors, scintillation detectors, semiconductor detectors	FRAME	W-14
	11:00 AM	SURVEY INSTRUMENTS	FRAME	W-14
	12:00 Noon	Lunch (review at 12:15 PM in C-1)		
	1:00 PM	Lab: Survey Instruments I (SI-100, 100.1, 102)	Thomas	W-15
	2:45 PM	Lab: Survey Instruments II (SI-101, 103)	Thomas	W-15
	4:00 PM	Test		
Thursday, August 7	8:00 AM	NATURAL BACKGROUND RADIATION	BERNHARDT	C-1
	9:30 AM	INSTRUMENT CALIBRATION	FRAME	C-1
	11:00 AM	CONTAMINATION SURVEYS	BERNHARDT	C-1
	12:00 Noon	Lunch		
	1:00 PM	Lab: Survey Instrument Calibration (SI-106)	Bernhardt/Worthington	W-15
	2:30 PM	Lab: Walkover Survey – NaI detectors	Bernhardt/Worthington	W-15
	3:30 PM	Lab: Floor Monitoring – Gas Flow Proportional	Bernhardt/Worthington	W-15
Friday, August 8	8:00 AM	REGULATIONS and REGULATORY GUIDANCE	THOMAS	C-1
	10:00 AM	Lab: Ion Exchange (RC-102)	Thomas/Bernhardt	W-19
	12:00 Noon	Lunch (review at 12:15 PM in C-1)		
	1:00 PM	Lab: Contamination Surveys (ST-102)	Bernhardt/Thomas	W-19
	2:00 PM	COUNTING STATISTICS	THOMAS	C-1
	3:00 PM	Lab: Counting Statistics (S-102)	Thomas/Worthington	W-15
	4:00 PM	Test	Worthington	

# August 4-15, 2003

## Second Week

DATE	TIME	TOPIC	INSTRUCTOR(S)	LOCATION
Monday, August 11	8:00 AM	EXTERNAL DOSIMETRY AND PERSONNEL MONITORING	THOMAS	C-1
	10:00 AM	BIOASSAY	TOOHEY	C-1
	12:00 Noon	Lunch		
	2:30 PM	Lab: Gamma Spectroscopy II (GE-100, 101.1, 103)	Thomas/Bernhardt	W-15
Tuesday, August 12	8:00 AM	NEUTRON SOURCES, INTERACTIONS AND DETECTION	FRAME	C-1
	10:00 AM	NEUTRON ACTIVATION	FRAME	C-1
	11:00 AM	THERMOLUMINESCENT AND OSL	FRAME	C-1
	12:00 Noon	Lunch		
	1:00 PM	Lab: Activation Analysis (NAA-103)	Thomas/Worthington	W-15
	2:30 PM	Lab: TLD Systems (TLD-100, 102,103)	Thomas/Worthington	W-15
Wednesday, August 13	8:00 AM	RADIATION SHIELDING	THOMAS	C-1
	10:00 AM	Lab: Shielding	Thomas/Worthington	C-1
	11:00 AM	AIR SAMPLING	FRAME	C-1
	12:00 Noon	Lunch (review at 12:15 PM in C-1)		
	1:00 PM	AIR SAMPLING continued	FRAME	C-1
	2:00 PM	Lab: Air Sampling (AS-105)	Frame/Worthington	W-1
	4:00 PM	Test	Worthington	
Thursday, August 14	8:00 AM	RESPIRATORY PROTECTION	FRAME	C-1
	9:00 AM	Lab: Protective Clothing	Bernhardt	W-15-C
	10:30 AM	ENVIRONMENTAL TRANSPORT MODELING	FRAME	C-1
	12:00 Noon	Lunch		
	1:00 PM	RADIOACTIVE WASTE	FRAME	C-1
	2:00 PM	LIQUID SCINTILLATION COUNTING	FRAME	C-1
	3:00 PM	Lab: LSC	Bernhardt, Worthington	W-15
Friday, August 15	8:00 AM	MEDICAL USES OF RADIATION	THOMAS	C-1
	9:00 AM	REAL-WORLD LICENSEE ISSUES Power Reactors; Fuel Cycle Licensees; Industrial Uses; Academic Users; Decommissioning Uranium Recovery Facilities; Waste Disposal Sites	Staff	C-1
	12:00 Noon	Lunch (review at 12:15 PM in C-1)		
	1:00 PM	CURRENT TOPICS - Issues, events, accidents	THOMAS	C-1
	3:00 PM	Test	Worthington	