

THE UNIVERSITY OF TEXAS
MD Anderson Cancer Center

Department of Imaging Physics

**Nuclear Medicine and PET Hands-On Workshop:
Physics, Testing, and Accreditation**

October 23-25, 2015

Houston, TX

Class limited to 36 attendees.

Tuition: \$1275

16.5 Hours (3 days): 6.5 hours of Classroom Lectures; 10 hours of Laboratories

Registration will begin at 12:00 Noon on Friday, and classes will finish at 12:30 PM on Sunday.

Course Directors: William “Bill” Erwin, M.S. and Osama Mawlawi, Ph.D.

Other Instructors: Dustin Gress, M.S., Cheenu Kappadath, Ph.D., Tinsu Pan, Ph.D., and Richard Wendt, Ph.D.

This course will provide the participant with practical knowledge of Nuclear Medicine and PET annual and ACR accreditation testing. The 2-hour lab sessions are designed to provide hands on experience in acquisition, analysis and report generation of test data.

Course Objectives: After mastering the course lecture content and participating in the labs, the participant will be able to perform annual and acceptance tests for NM & PET systems, as well as gain the required knowledge for ACR accreditation, and perform shielding calculations for NM & PET suites (including those for hybrid systems).

Course Meals Provided: Friday – light PM snack and dinner. Saturday – breakfast, mid-morning snack, lunch, mid-afternoon snack. Sunday – breakfast and mid-morning snack.

LECTURE TOPICS:

- 1) Basics (Optional)
- 2) PET Annual Testing
- 3) PET ACR Accreditation
- 4) Nuclear Medicine Annual Testing
- 5) Nuclear Medicine ACR Accreditation
- 6) Shielding calculations with a hands-on exercise

LAB A: PET Annual Testing

Follow NEMA standards for PET
Resolution
Sensitivity
Uniformity
Count Rate Performance
Image Quality
Accuracy Corrections
PET/CT Registration

LAB B: Planar & SPECT Annual Testing

Energy Resolution
Flood Uniformity
Sensitivity
Count Rate Parameters
Resolution
SPECT Uniformity and Contrast
SPECT/CT Registration

LAB C: PET ACR Accreditation

Phantom Filling
Positioning
Scanning
Image Formatting & Preparation
Tips and Things to Watch for

LAB D: Planar and SPECT ACR Accreditation

Phantom Filling
Positioning
Scanning
Image Formatting & Preparation
Tips and Thing to Watch for

THIS PROGRAM WOULD BE APPROPRIATE FOR MEDICAL PHYSICISTS WHO SUPPORT PET/SPECT/CT IN A CLINICAL ENVIRONMENT. TECHNICALLY-ORIENTED TECHNOLOGISTS AND RADIOLOGISTS MAY ALSO FIND THIS INFORMATION AND EXPERIENCE BENEFICIAL TO THEIR CLINICAL PRACTICES OR CAREER DEVELOPMENT.

COURSE DIRECTORS

William “Bill” Erwin, M.S., is Sr. Medical Physicist in the Department of Imaging Physics at The University of Texas MD Anderson Cancer Center. He has extensive experience in the physics of SPECT/CT.

Osama Mawlawi, Ph.D., is Professor of Imaging Physics and the section chief of nuclear medicine physics in the Department of Imaging Physics at The University of Texas MD Anderson Cancer Center. He has extensive experience in the physics of PET/CT.

CONTINUING EDUCATION CREDITS

Application has been submitted to the Commission on Accreditation of Medical Physics Education Programs, Inc. (CAMPEP) requesting up to sixteen and a half (16.5) MPCEC credits for full participation in the course.

SPECIAL NEEDS

Individuals needing auxiliary aids or services as identified in the Americans with Disabilities Act should contact us.

CANCELLATION POLICY

The University of Texas MD Anderson Cancer Center reserves the right to cancel any course no less than one week prior to the course. Should circumstances make this necessary, fees will be refunded in full.

If registration must be cancelled by the applicant, notice must be received at least 21 days prior to the commencement of the course. Tuition will be refunded (less a \$100 handling fee). Later cancellation will incur retention of 50% of the tuition unless the applicant's place can be filled from a waiting list. In this case, the full tuition will be refunded (less the \$100 handling fee). Once the course commences there will be no refund.

APPLICATIONS AND QUESTIONS

Applications and questions should be directed to the Short Course Coordinator at:

Attention: Betsy Kindred

Program Manager

The University of Texas

MD Anderson Cancer Center

Dept. of Imaging Physics - Unit 1472

1400 Pressler Street

Houston, Texas 77030

Phone: (713) 563-2548

Fax: (713) 563-2480

E-mail: eckindre@mdanderson.org

Information regarding local accommodations and transportation will be sent upon receipt of the application and course fee.

The class size is limited to the first 36 applicants.

Application Form (return to Short Course Coordinator at the address above)

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Please type or print:

Name _____ Institution _____

Position _____ Institutional Address _____

City, State, Zip _____

E-Mail Address _____

Office Phone _____ Cell Phone _____ Fax Number _____

Educational Background (List degree, year, field, and school)

Checks should be made payable to: The University of Texas MD Anderson Cancer Center