

PARTICIPATING FACULTY

- William F. Regine, M.D., Isadore and Fannie Schneider Foxman Chair and Professor, Department of Radiation Oncology, University of Maryland School of Medicine
- John E. Bayouth, Ph.D., Associate Professor and Chief of Medical Physics, Department of Radiation Oncology, University of Iowa College of Medicine
- Warren D. D'Souza, Ph.D., Associate Professor and Chief of Medical Physics, Department of Radiation Oncology, University of Maryland School of Medicine
- Matt A. Earl, Ph.D., Assistant Professor, Department of Radiation Oncology, University of Maryland School of Medicine
- Mark F. Smith, Ph.D., Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine
- Shahid A. Naqvi, Ph.D., Associate Professor, Department of Radiation Oncology, University of Maryland School of Medicine
- Karl L. Prado, Ph.D., Associate Professor and Deputy Chief of Clinical Physics, Department of Radiation Physics, University of Texas MD Anderson Cancer Center
- Mark J. Rivard, Ph.D., Professor and Chief of Medical Physics, Department of Radiation Physics, Tufts University School of Medicine
- Timothy D. Solberg, Ph.D., Professor and Director of Medical Physics, Department of Radiation Oncology, University of Texas Southwestern School of Medicine

PROGRAM TIMELINE

Saturday, May 30, 2009

07:00 – 08:00	Breakfast	
08:00 – 09:00	Mark J. Rivard, Ph.D.	Atomic and Nuclear Structure, Radioactive Decay, and Units
09:00 – 10:00	Karl L. Prado, Ph.D.	Photon Interactions (Kerma and Dose), Attenuation, Radiation Quality, and HVL
10:00 – 10:15	Session Break	
10:15 – 11:15	Timothy D. Solberg, Ph.D.	Radiation Production, Radiation Machines (Linear Accelerators, Cyclotron, Microtron, Cobalt units, Therapeutic x-ray (<300 kVp))
11:15 – 12:15	John Bayouth, Ph.D.	Radiation Measurement, Calibration, and Radiation Detectors
12:15 – 01:00	Lunch	
01:00 – 02:00	John E. Bayouth, Ph.D.	Charged Particle Interactions, Electron Beams, and Proton Beams
02:00 – 03:00	Mark J. Rivard, Ph.D.	Brachytherapy
03:00 – 03:15	Session Break	
03:15 – 04:15	Warren D. D'Souza, Ph.D.	Dose Ratios
04:15 – 05:45	Shahid A. Naqvi, Ph.D.	MU Calculations

Sunday, May 31, 2009

07:00 – 08:00	Breakfast	
08:00 – 09:00	Mark F. Smith, Ph.D.	Imaging and its Applications in RT (CT, MRI, PET and US)
09:00 – 10:15	Matthew A. Earl, Ph.D.	Treatment Planning (Simulation, Beam Arrangements, Modifiers, Localization)
10:15 – 10:30	Session Break	
10:30 – 11:30	Timothy D. Solberg, Ph.D.	Special Techniques (IMRT, SRS, SBRT, TBI)
11:30 – 12:30	Karl L. Prado, Ph.D.	Radiation Safety / Protection, Shielding and QA