

## CONTINUING EDUCATION COURSES

Day	Time	Room	Title	Speakers	Course Designation
			<b>Directors: Michael McNitt-Gray Cynthia McCollough</b>		
<b>Computed Tomography Physics and Technology</b>					
Mon	7:30 – 8:25	23 A	Recent Advances in CT Technology	Mahadevappa Mahesh	CE - Computed Tomography 1
Tues	7:30 – 8:25	23 A	CT Accreditation Program: Image Quality and Dose Measurements	Cynthia McCollough	CE - Computed Tomography 2
Wed	7:30 – 8:25	23 A	Tradeoffs in CT Image Quality and Radiation Dose	Michael McNitt-Gray	CE - Computed Tomography 3
Thurs	7:30 – 8:25	23 A	CT Dose Reduction Strategies and the Pediatric Patient	Dianna Cody	CE - Computed Tomography 4
			<b>Director: Andrew Karellas</b>		
<b>Mammography Physics and Technology</b>					
Mon	7:30 – 8:25	24 A	ACR- Stereotactic Breast Biopsy Accreditation Program Overview Quality Control Testing of Stereotactic Breast Biopsy Units: QC overview	Phyllis Karlicek Robert Pizzutiello	CE - Mammography 1
Mon	4:00 – 5:30	26 A	Scoring the Stereotactic Breast Biopsy Program Accreditation Phantom Quality Control Testing of Stereotactic Breast Biopsy Units: Fischer	Andrew Maidment Al Hrejsa	CE - Mammography 2
Tues	7:30 – 8:25	24 A	Quality Control Testing of Stereotactic Breast Biopsy Units: Lorad Quality Control Testing of Stereotactic Breast Biopsy Units - GE and Siemens	Maynard High Robert Pizzutiello	CE - Mammography 3
Wed	7:30 – 8:25	24 A	Digital Mammography Technology, Performance Audits and Accreditation Issues	Andrew Karellas	CE - Mammography 4
Thurs	7:30 – 8:25	24A	Digital Mammography Displays	Ehsan Samei	CE - Mammography 5
			<b>Director: Charles Willis</b>		
<b>Digital Image Management Systems</b>					
Mon	7:30 – 8:25	25 A	The Role of the Physicist in the Planning and Design of Digital Image Management Systems	Charles Willis	CE - Digital Image Management Systems 1
Tues	7:30 – 8:25	25 A	DICOM: What the Physicist Needs to Know	Steven Thompson	CE - Digital Image Management Systems 2
Wed	7:30 – 8:25	25 A	Digital Image Distribution: Design and Performance	Robert Cecil	CE - Digital Image Management Systems 3
Thurs	7:30 – 8:25	25 A	Digital Data Storage: Design Characteristics and Performance	Douglas Tucker	CE - Digital Image Management Systems 4
			<b>Director: Donald Herbert</b>		
<b>Models in Medicine</b>					
Mon	7:30 – 8:25	26 A	Introduction to Statistical Inference and the General Linear Model	Donald Herbert	CE – Models in Medicine 1
Tues	7:30 – 8:25	26 A	Introduction to Resampling and Bayesian Models	Donald Herbert	CE - Models in Medicine 2
Wed	7:30 – 8:25	26 A	Introduction to Generalized Linear and Nonlinear Models	Donald Herbert	CE - Models in Medicine 3
Thurs	7:30 – 8:25	26 A	ROC Analysis: Methodology and Practical Applications	Charles Metz	CE - Models in Medicine 4
			<b>Director: James Halama</b>		
<b>Radionuclide Imaging Physics and Technology</b>					
Mon	8:30 – 9:25	23 A	PET Systems: Design, Performance and Evaluation	Fred Fahey	CE - Radionuclide Imaging 1
Tues	8:30 – 9:25	23 A	Data Correction and Image Reconstruction Methods for PET	Craig Levin	CE - Radionuclide Imaging 2
Tues	1:30 – 2:30	26A	Advances and Quality Assurance in Gamma Camera & SPECT Systems	James Hamala	CE - Radionuclide Imaging 3
Tues	4:00 – 5:30	26A	PET Site Planning and Radiation Safety	Lawrence Williams	CE - Radionuclide Imaging 4
Wed	8:30 – 9:25	23 A	PET/CT and Image Fusion Issues	Jon Anderson	CE - Radionuclide Imaging 5

Thurs	8:30 – 9:25	23 A	PET Scanner Quality Assurance and Acceptance Testing	Brad Kemp	CE - Radionuclide Imaging 6
<b>CONTINUING EDUCATION COURSES</b>					
Day	Time	Room	Title	Speakers	Course Designation
<b>Fluoroscopy Physics and Technology</b>			<b>Director: Beth A. Schueler</b>		
Mon	8:30 – 9:25	24 A	Modern Fluoroscopic Equipment Design and Application	Phillip Rauch	CE - Fluoroscopy 1
Tues	8:30 – 9:25	24 A	Managing Patient Dose in Fluoroscopic Procedures	Keith Strauss	CE - Fluoroscopy 2
Wed	8:30 – 9:25	24 A	Digital Fluoroscopic Imaging: Acquisition, Processing and Display	J. Anthony Seibert	CE - Fluoroscopy 3
Thurs	8:30 – 9:25	24 A	Personnel Protection During Fluoroscopic Procedures	Beth Schueler	CE - Fluoroscopy 4
<b>Magnetic Resonance Imaging Physics and Technology</b>			<b>Director: Geoffrey Clarke</b>		
Mon	8:30 – 9:25	25 A	Optimizing MR Imaging Practices: The Physicist as a Consultant	Moriel NessAiver	CE - MRI 1
Tues	8:30 – 9:25	25 A	Physics Procedures for ACR MRI Accreditation	Robert Bell	CE - MRI 2
Wed	8:30 – 9:25	25 A	MR Functional Imaging	Todd Parrish	CE - MRI 3
Thurs	8:30 – 9:25	25 A	Advances in MRI Equipment Design, Software, and Imaging Procedures	Gerhard Laub	CE - MRI 4
<b>Ultrasound Imaging Physics and Technology</b>			<b>Directors: Mark Holland Randell Kruger</b>		
Mon	8:30 – 9:25	26 A	Perspectives On Image Performance Assessment I: Defining Image Performance Criteria Ultrasound Imaging System Performance Assessment	Hector Lopez Kutay Ustuner	CE - Ultrasound 1
Tues	8:30 – 9:25	26 A	Perspectives On Image Performance Assessment II The Impact of Compromised Elements Within An Ultrasound Transducer On Image and Doppler Quality	Wayne Moore Ernest Madsen	CE - Ultrasound 2
Wed	8:30 – 9:25	26 A	Quality Assurance of Ultrasound Imagers: Basic Physics, Procedures and Experiences	Zhengfeng Lu	CE - Ultrasound 3
Wed	10:00 – 2:00	26 A	Ultrasound Hands-On Workshop	Randell Kruger Zhengfeng Lu	CE – Ultrasound: Hands On Workshop
Thurs	8:30 – 9:25	26 A	Recent Advances in Ultrasonic Imaging	James Zagzebski	CE - Ultrasound 4
<b>Radiotherapy Treatment Verification (TV)</b>			<b>Director: James Balter</b>		
Mon	7:30 – 8:25	20 A	Treatment Planning System Verification	Karen Doppke	CE- Treatment Verification 1
Tues	7:30 – 8:25	20 A	Patient Dosimetry	Mary Ellen Masterson-McGary	CE- Treatment Verification 2
Wed	7:30 – 8:25	20 A	Patient and Organ Position Verification Using Electronic Portal Imaging Devices	Frank Van den Heuvel	CE- Treatment Verification 3
Thurs	7:30 – 8:25	20 A	Position Verification by Fluoroscopy, CT, and Other Modalities	James Balter	CE- Treatment Verification 4
<b>Clinical Intensity Modulated Radiotherapy (IMRT)</b>			<b>Director: Daniel Low</b>		
Mon	8:30 – 9:25	20 A	Practical IMRT Treatment Planning Issues	Michael Sharpe	CE- IMRT 1
Tues	8:30 – 9:25	20 A	Clinical Pitfalls and Limitations of IMRT	Gary Ezzell	CE-IMRT 2
Wed	8:30 – 9:25	20 A	IMRT System Quality Assurance	Dan Low	CE-IMRT 3
Thurs	8:30 – 9:25	20 A	Patient-Based Quality Assurance for IMRT	Dirk Verellen	CE-IMRT 4
<b>Brachytherapy (Procedures and Sources)</b>			<b>Director: Bruce Thomadsen</b>		
Mon	8:30 – 9:25	20 D	Overview of Update of AAPM Task Group No. 43 Report The Original TG-43 Based Dosimetric Comparisons of 125I and 103Pd	Jeffrey Williamson Ali Meigooni	CE-Brachy - 1
Tues	8:30 – 9:25	20 D	Brachytherapy Ramifications of Revised Part 35	Ralph Lieto	CE-Brachy - 2
Wed	8:30 – 9:25	20 D	Radioimmunotherapy Dosimetry	William Erwin	CE-Brachy - 3
Thurs	8:30 – 9:25	20 D	Breast Brachytherapy Using a Single Balloon Catheter Interstitial Breast Brachytherapy Using Multiple Catheters	Bruce Thomadsen Rupak Das	CE-Brachy - 4