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**CAMPEP**  
**Commission on Accreditation of Medical Physics Education Programs, Inc.**  
**Certificate of Medical Physics Continuing Education Credits**  
**----Unofficial Transcript----**

**Tony Murphy**  
 1417 Cougar Ct  
 Sartell, MN 56377  
 US

Participated in the following CAMPEP accredited educational program(s) and is awarded Medical Physics Continuing Education Credits (MPCECs) as designated

<u>Program Title</u>	<u>Date Credits Earned</u>	<u>Category/SubCategory</u>	<u>EA Title</u>	<u>Credits</u>
2011 AAPM OnLine Continuing Education	12/26/2011	Diagnostic Radiology:Magnetic Resonance	1615-N ACR MRI Accreditation Program Phantom Testing	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Magnetic Resonance	1624-N ACR MRI Accreditation Overview	1
2011 AAPM OnLine Continuing Education	12/29/2011	Diagnostic Radiology:Magnetic Resonance	1645-N Practical aspects of functional MRI (NMR Task Group #8)	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Magnetic Resonance	1654-N MRI Quality Control Manual	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Magnetic Resonance	1655-N MR Accreditation Program Quality Control: Beyond Just the Scans and Measurements	1
2011 AAPM OnLine Continuing Education	12/30/2011	Diagnostic Radiology:Magnetic Resonance	1657-N The Principles of Quantitative MRI	1
2011 AAPM OnLine Continuing Education	12/30/2011	Diagnostic Radiology:Computed Tomography	1824-N Fundamentals of Single and Multiple Row Detector Computed Tomography	1
2011 AAPM OnLine Continuing Education	12/25/2011	Diagnostic Radiology:Computed Tomography	1827-N Quality assurance for computed-tomography simulators and the computed-tomography-simulation process: Report of the AAPM Radiation Therapy Committee Task Group No. 66	1
2011 AAPM OnLine Continuing Education	12/30/2011	Diagnostic Radiology:Computed Tomography	1828-N RECENT ADVANCES in CT: MSCT and Highspeed Scanning	1
2011 AAPM OnLine Continuing Education	12/25/2011	Nuclear Medicine:Radiation Protection	1837-N Releasing Nuclear Medicine Patients to the Public: Dose Calculations and Discharge Instructions	1
2011 AAPM OnLine Continuing Education	12/28/2011	Diagnostic Radiology:Magnetic Resonance	1849-N MRI Artifacts in ACR Accreditation Phantom Images	1
2011 AAPM OnLine Continuing Education	12/29/2011	Diagnostic Radiology:Magnetic Resonance	1854-N A Generalized Approach to Parallel Magnetic Resonance Imaging	1
2011 AAPM OnLine Continuing Education	12/28/2011	Diagnostic Radiology:Magnetic Resonance	1855-N Optimizing MRI Protocols – Clinical Practice and Compromises	1
2011 AAPM OnLine Continuing Education	12/25/2011	Diagnostic Radiology:Computed Tomography	1892-N Cone beam CT dosimetry A unified and self-consistent approach including all scan modalities	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:PET	1914-N 4D-PET data sorting into different number of phases - a NEMA IQ phantom study	1
2011 AAPM OnLine Continuing Education	12/28/2011	Diagnostic Radiology:Magnetic Resonance	1915-N MRI Annual Equipment Performance Evaluation and Acceptance Testing	1
2011 AAPM OnLine Continuing Education	12/27/2011	Diagnostic Radiology:Computed Tomography	1931-N C-Arm Cone-Beam CT: Some Essential Science and Practicalities	1
2011 AAPM OnLine Continuing Education			1979-N Imaging Symposium -	

Online Continuing Education	12/25/2011	Diagnostic Radiology:Patient Safety	Patient Dose in CT: Calculating Patient-Specific Doses in CT	1
2012 AAPM Online Continuing Education	10/22/2012	General Medical Physics:None	1548-N Everything you always wanted to know about high frequency X-ray generators	1
2012 AAPM Online Continuing Education	10/18/2012	Diagnostic Radiology:Mammography	1590-N Final MQSA Rules	1
2012 AAPM Online Continuing Education	10/22/2012	Diagnostic Radiology:Magnetic Resonance	1621-N Physics Procedures for ACR MRI Accreditation	1
2012 AAPM Online Continuing Education	10/22/2012	Radiation Protection:Radiation Protection	1635-N Exposure Limitation to Ionizing Radiation	1
2012 AAPM Online Continuing Education	10/23/2012	Diagnostic Radiology:Radiation Protection	1638-N Evaluation and Consulting on Patient Dose in Diagnostic Imaging	1
2012 AAPM Online Continuing Education	10/18/2012	Diagnostic Radiology:Quality Management	1694-N Online QA in Radiology	1
2012 AAPM Online Continuing Education	10/23/2012	Diagnostic Radiology:Mammography	1806-N Breast compression study	1
2012 AAPM Online Continuing Education	10/22/2012	Diagnostic Radiology:Mammography	1809-N The future of breast cancer imaging	1
2012 AAPM Online Continuing Education	10/18/2012	Diagnostic Radiology:None	1825-N CT Reconstruction	1
2012 AAPM Online Continuing Education	10/22/2012	Radiation Protection:Radiation Protection	1832-N The Role of the Medical Physicist in Preparing for Radiation Disasters	1
2012 AAPM Online Continuing Education	10/23/2012	Diagnostic Radiology:None	1870-N TG 18	1
2012 AAPM Online Continuing Education	10/24/2012	Radiation Protection:Radiation Protection	1890-N A View from the Trenches: How to Better Equip CT Technologists in Dealing with the Increasing Complexity of Modern CT Scanners	1
2012 AAPM Online Continuing Education	10/23/2012	Diagnostic Radiology:Magnetic Resonance	2010-N Report of MR Subcommittee Task Group I - Acceptance Testing and QA Procedures for MRI	1
2012 AAPM Online Continuing Education	10/23/2012	Diagnostic Radiology:Computed Tomography	2051-N Task Group Report 204	1
2012 AAPM Online Continuing Education	10/18/2012	General Medical Physics:Regulatory/Accreditation	2055-N Regulatory and Legislative - Minimum Practice Standards	1
2012 AAPM Online Continuing Education	10/22/2012	Diagnostic Radiology:Computed Tomography	2058-N CT: Parameter and Protocol Optimization	1
2012 AAPM Online Continuing Education	10/18/2012	Diagnostic Radiology:Computed Tomography	2061-N CT: Dose Estimation and Measurement	1
2012 AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:Mammography	Advanced Modalities	2
2012 AAPM Spring Clinical Meeting	03/20/2012	General Medical Physics:Professional	Clinical Project Management and Leadership	2
2012 AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:Radiobiology	Clinical Radiation Biology and Radiation Risks	2
2012 AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:Computed Tomography	Manufacturer Specific Considerations for CT Accreditation Implementation of Low Dose	2

Year	Meeting	Topic	Protocols	Hours	
2012	AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:Mammography	MQSAACR Update	2
2012	AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:Magnetic Resonance	MRI Safety and Accreditation	2
2012	AAPM Spring Clinical Meeting	03/20/2012	General Medical Physics:Patient Safety	Patient Safety Medical Error Prevention	2
2012	AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:Computed Tomography	Performance of Iterative Reconstruction Algorithms CT Dose Registries	2
2012	AAPM Spring Clinical Meeting	03/20/2012	General Medical Physics:Education	PQI Training, Workforce and Project Management	2
2012	AAPM Spring Clinical Meeting	03/20/2012	General Medical Physics:Regulatory/Accreditation	Regulatory and Legislative	2
2012	AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:Mammography	TomosynthesisBreast Biopsy	2
2012	AAPM Spring Clinical Meeting	03/20/2012	Diagnostic Radiology:None	Ultrasound Nuc Med Accreditation and Testing	2
2012	AAPM Spring Clinical Meeting	03/20/2012	Radiotherapy:Dosimetry	VMAT for Dummies: Concepts, Clinical Implementation and Treatment Planning	2
2012	AAPM Spring Clinical Meeting	03/20/2012	General Medical Physics:None	Young Investigator Clinical Symposium	2
2012	RSNA Annual Meeting	11/26/2012	Diagnostic Radiology:Cardiovascular	Cardiac Series: Myocardial Imaging, Perfusion, and Viability	3.5
2012	RSNA Annual Meeting	11/27/2012	General Medical Physics:Patient Safety	Minicourse: Recording and Reporting Radiation Dose: CT	1.5
2012	RSNA Annual Meeting	11/25/2012	General Medical Physics:Patient Safety	Minicourse: Recording and Reporting Radiation Dose: National and International Perspectives and Activities	1.5
2012	RSNA Annual Meeting	11/27/2012	General Medical Physics:Patient Safety	Minicourse: Recording and Reporting Radiation Dose: Nuclear Medicine	1.5
2012	RSNA Annual Meeting	11/27/2012	Diagnostic Radiology:None	Physics Multi-energy CT	1.5
2013	AAPM Spring Clinical Meeting	03/18/2013	Diagnostic Radiology:Patient Safety	Advanced Fluoroscopy: Cardiac Cath Lab Dose Tracking Fluoro and CT	2
2013	AAPM Spring Clinical Meeting	03/17/2013	Diagnostic Radiology:Mammography	Advanced Modalities in Breast Imaging - Molecular Breast Imaging and Stereotactic Breast Biopsy	2
2013	AAPM Spring Clinical Meeting	03/16/2013	Diagnostic Radiology:Computed Tomography	CT: SSDE New ACR QC Manual	2
2013	AAPM Spring Clinical Meeting	03/17/2013	Diagnostic Radiology:Mammography	Digital Breast Tomosynthesis: Basic Physics and Operation	2
2013	AAPM Spring Clinical Meeting	03/19/2013	General Medical Physics:Professional	Effective Communication Skills with Staff and Patients	2
2013	AAPM Spring Clinical Meeting	03/19/2013	General Medical Physics:Regulatory/Accreditation	General Diagnostic: Dental X-Ray Preparing for an ACR Site Visit	2
2013	AAPM Spring Clinical Meeting	03/16/2013	General Medical Physics:Education	General Poster Viewing (up to 2 hours)	2
2013	AAPM Spring Clinical Meeting	03/18/2013	General Medical Physics:None	Medical Physics Practice Guidelines	2
2013	AAPM Spring Clinical Meeting	03/18/2013	Diagnostic Radiology:Magnetic Resonance	MR: Multi-vendor Testing Automated Phantom QC Analysis	2
2013	AAPM Spring Clinical Meeting	03/17/2013	General Medical Physics:Professional	Professional Liability and Risk Management in Medical Physics Practice	2
2013	AAPM Spring Clinical Meeting	03/17/2013	General Medical Physics:Professional	Professional Liability and Risk Management in Medical Physics Practice	2

Spring Clinical Meeting	03/17/2013	Radiotherapy:Image-guided	QA of Treatment Guidance Systems	2
2013 AAPM Spring Clinical Meeting	03/18/2013	Diagnostic Radiology:Radiation Protection	Radiation Safety: Tips for the Dx MP Shielding for Multi-modality Technology	2
2013 AAPM Spring Clinical Meeting	03/16/2013	General Medical Physics:Professional	Regulatory and Legislative	2
54th AAPM Annual Meeting	07/31/2012	Diagnostic Radiology:Patient Safety	Computed Tomography 5 CTDI and Patient Dose: A European Perspective	1
54th AAPM Annual Meeting	08/02/2012	Diagnostic Radiology:Computed Tomography	CT Image Quality	1.83
54th AAPM Annual Meeting	07/29/2012	Diagnostic Radiology:Computed Tomography	CT Imaging and QA	0.75
54th AAPM Annual Meeting	07/30/2012	Radiotherapy:Quality Management	CT QC Testing	1.92
54th AAPM Annual Meeting	07/31/2012	Diagnostic Radiology:Patient Safety	DoseRisk 1 Implementation of The Joint Commissions Sentinel Event Alert 47	0.92
54th AAPM Annual Meeting	08/02/2012	Diagnostic Radiology:Patient Safety	DoseRisk 4 Update on Image Wisely	0.92
54th AAPM Annual Meeting	07/30/2012	General Medical Physics:None	General Poster Viewing	4.5
54th AAPM Annual Meeting	07/29/2012	Radiotherapy:Radiobiology	John R Cameron Young Investigator Symposium	2
54th AAPM Annual Meeting	07/30/2012	Diagnostic Radiology:Magnetic Resonance	Magnetic Resonance 1 Establishing a 4D-MRI Program for Imaging Moving Tumors	1.5
54th AAPM Annual Meeting	08/02/2012	Diagnostic Radiology:Magnetic Resonance	Magnetic Resonance 5 New ACR MRI Safety Guidelines	1
54th AAPM Annual Meeting	07/30/2012	Diagnostic Radiology:Mammography	Mammography 1 Contrast Enhanced Spectral Mammography	0.83
54th AAPM Annual Meeting	07/29/2012	General Medical Physics:None	Medical Physics and Technology Education for Society:Adults,Teenagers and Elementary Students	1.5
54th AAPM Annual Meeting	07/31/2012	Diagnostic Radiology:Magnetic Resonance	MRI 1	1.5
54th AAPM Annual Meeting	08/01/2012	Diagnostic Radiology:Magnetic Resonance	MRI 2	1.5
54th AAPM Annual Meeting	08/01/2012	Diagnostic Radiology:PET	MultimodalMolecularNuclearOptical	2
54th AAPM Annual Meeting	08/01/2012	Nuclear Medicine:PET	Nuclear Medicine 3 Molecular imaging of the Breast	0.92
54th AAPM Annual Meeting	08/02/2012	Nuclear Medicine:Patient Safety	Nuclear Medicine 4 Image Gently: Go with the Guidelines	0.92
54th AAPM Annual Meeting	08/02/2012	Nuclear Medicine:Dosimetry	Nuclear Medicine 5 Release of Radioactive Patients	0.92
54th AAPM Annual Meeting	07/31/2012	Radiotherapy:Quality Management	PETCT QA and Acceptance Testing	1.83
54th AAPM Annual Meeting	07/29/2012	General Medical Physics:Professional	Professional Council Symposium - Practice Standards - Driving Forces, Benefits, Potential Pitfalls	1.5
54th AAPM Annual Meeting	07/30/2012	Diagnostic Radiology:Patient Safety	RadiographyFluoroscopy 1 Optimizing Dose In the Interventional Radiology Suite: Do You Really Need That Image Quality	0.92
54th AAPM Annual Meeting	08/01/2012	Diagnostic Radiology:Radiography	RadiographyFluoroscopy 4 Fluoro in the OR	0.92
54th AAPM Annual Meeting	07/30/2012	General Medical Physics:None	The Future of Physics Research in Cancer Therapy and Imaging	2
54th AAPM Annual Meeting	07/29/2012	Diagnostic Radiology:PET	X-Ray, Nuclear, and PET Imaging	0.75

Meeting				
54th AAPM Annual Meeting SAMs	07/31/2012	Diagnostic Radiology:Computed Tomography	Computed Tomography 34	1.83
54th AAPM Annual Meeting SAMs	08/01/2012	Diagnostic Radiology:Mammography	Mammography 2 3 Breast Imaging	1.83
55th AAPM Annual Meeting	08/08/2013	Diagnostic Radiology:Mammography	Breast Imaging QA	1.92
55th AAPM Annual Meeting	08/08/2013	Diagnostic Radiology:Computed Tomography	Computed Tomography 2	2
55th AAPM Annual Meeting	08/04/2013	Diagnostic Radiology:Computed Tomography	CT ReconstructionProcessingCorrection	0.92
55th AAPM Annual Meeting	08/07/2013	Diagnostic Radiology:Computed Tomography	CT Tools and Protocols Available Through AAPM	0.92
55th AAPM Annual Meeting	08/04/2013	General Medical Physics:Education	Education Council Symposium: AAPM and International Education: What, Why and How	1.5
55th AAPM Annual Meeting	08/04/2013	General Medical Physics:Education	General Poster Viewing	8
55th AAPM Annual Meeting	08/06/2013	Diagnostic Radiology:Computed Tomography	Image Quality Models in Advanced CT Applications	1.83
55th AAPM Annual Meeting	08/06/2013	Diagnostic Radiology:Magnetic Resonance	MRI 1	1.5
55th AAPM Annual Meeting	08/08/2013	Diagnostic Radiology:Magnetic Resonance	MRI Parallel Imaging	1.83
55th AAPM Annual Meeting	08/07/2013	Diagnostic Radiology:Magnetic Resonance	MRI Safety	0.92
55th AAPM Annual Meeting	08/06/2013	Nuclear Medicine:PET	Nuclear Medicine Advances in Instrumentation: PETMRI Technical Design Challenges Innovations	2
55th AAPM Annual Meeting	08/04/2013	Nuclear Medicine:PET	NuclearPETNew Modalities	0.92
55th AAPM Annual Meeting	08/05/2013	General Medical Physics:Professional	Presidents Symposium: Medical Physics in the Era of Genomic Medicine	2
55th AAPM Annual Meeting	08/04/2013	General Medical Physics:Professional	Professional Council Symposium: The Medical Physicist as a Professional Leader - The Importance of Leadership Development	1.5
55th AAPM Annual Meeting	08/05/2013	Diagnostic Radiology:Mammography	SAM-Mammography QA	2
55th AAPM Annual Meeting	08/06/2013	Diagnostic Radiology:Magnetic Resonance	SAM-MRI QA	2
55th AAPM Annual Meeting	08/05/2013	Nuclear Medicine:Quality Management	SAM-Nuclear Medicine Regulatory Guidelines Computational Methods for Safe Release of Radioactive Patients	2
55th AAPM Annual Meeting	08/07/2013	Diagnostic Radiology:PET	The Management of Imaging Procedure Dose 2: Nuclear Medicine	2
55th AAPM Annual Meeting	08/07/2013	Diagnostic Radiology:Ultrasound	Ultrasound for Diagnostic Imaging	1.83
55th AAPM Annual Meeting	08/05/2013	Radiotherapy:Image-guided	Ultrasound Guided Systems for RT and Treatment Planning	1.5
55th AAPM Annual Meeting	08/07/2013	Diagnostic Radiology:Mammography	X-Ray Breast Imaging	1.5
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Brachytherapy	Brachytherapy Events in 2011 and 2012	0.83
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Dosimetry	Correlation between model and human observer performance on a lesion shape discrimination task using realistic CT images	0.2

NCCAAPM 2013 Spring Meeting	05/03/2013	Diagnostic Radiology:Magnetic Resonance	Correlation of Digital Pathology with In-vivo MRI for Assessment of Prostate Cancer Aggressiveness and Extent	0.2
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Dosimetry	Developing A TrueBeam Monte Carlo Model for Assessing Flattening-Filter-Free Dosimetry	0.2
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Dosimetry	Framework for DIR validation and experimental results of dose warp accuracy	0.5
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Quality Management	Future Directions in Radiation Oncology QA	0.5
NCCAAPM 2013 Spring Meeting	05/03/2013	Diagnostic Radiology:Quality Management	Implementation of the 2012 ACR CT Quality Control Manual in a community hospital setting	0.5
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Dosimetry	Optimization of Microionization Chamber Design for Small-Field Reference Dosimetry	0.2
NCCAAPM 2013 Spring Meeting	05/03/2013	Diagnostic Radiology:Patient Safety	Sentinel Event Alert 47 Centralized QC in Practice	0.5
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Dosimetry	Separating the Dosimetric Consequences of Changing Tumor Anatomy from Positional Uncertainty for Conventionally Fractionated Lung Cancer Patients	0.2
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:External Beam	Technical Opportunities in Radiation Oncology	0.83
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Image-guided	TG226 MPPG 1 on X-ray imaging for treatment localization	0.5
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Quality Management	The clinical implications of using DVH based analysis vs Gamma analysis for IMRTVMAT QA	0.5
NCCAAPM 2013 Spring Meeting	05/03/2013	Radiotherapy:Dosimetry	ViewRay TPS Work Flow and Comparative Optimization	0.2
RSNA 2011 97th Scientific Assembly and Annual Meeting	11/27/2011	Diagnostic Radiology:Magnetic Resonance	Case-based Review ofMagnetic Resonance: MusculoskeletalmdashLower ExtremityIn Conjunction with the International Society forMagnetic Resonance in Medicine An Interactive Session	1.5
RSNA 2011 97th Scientific Assembly and Annual Meeting	11/27/2011	General Medical Physics:None	Minicourse: Current Topics in Medical PhysicsmdashNuclear Cardiac Imaging for Physicists	1.5
RSNA 2011 97th Scientific Assembly and Annual Meeting	11/27/2011	General Medical Physics:None	Minicourse: Current Topics in Medical PhysicsmdashQuality Control and Quality Assurance in the Digital Era	1.5
RSNA 2011 97th Scientific Assembly and Annual Meeting	11/27/2011	General Medical Physics:Dosimetry	Physics Symposium: Instrumentation for Clinical Dosimetry	4
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Nuclear Medicine:Radiation Protection	Applying Image Gently and Image Wisely in Nuclear Medicine	0.5
Spring Meeting of North Central Chapter of AAPM	04/20/2012	General Medical Physics:None	Characterizing Rotating Source MicroCT for In Vivo Evaluation of Murine Trabecular Bone	0.2
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:Intensity-modulated Radiotherapy	Clinical Implementation of Dose Painting with VMAT	0.5
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Diagnostic Radiology:Ultrasound	Clinical Ultrasound Transducer Degradation Effects on the Accuracy of Spectral Doppler Velocity Measurements	0.2
Spring Meeting of North			Cone Beam Computed Tomography Soft Tissue Localization for Non-	

Central Chapter of AAPM	04/20/2012	Radiotherapy:Image-guided	Stereotactic Body Radiotherapy Lung Cancer Patients	0.2
Spring Meeting of North Central Chapter of AAPM	04/20/2012	General Medical Physics:Education	Diagnostic radiological procedures for the senior population: A report on a five week course Looking inside the Body	0.33
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:Image-guided	Initial Clinical Experience with 3D Surface Image Guidance	0.33
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:Brachytherapy	Investigation of BrachyVision Acuros with Varian surface applicators	0.2
Spring Meeting of North Central Chapter of AAPM	04/20/2012	General Medical Physics:Professional	Major AAPM initiatives - 2012 and beyond	0.83
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiation Protection:Radiation Protection	Minnesota Radiation Emergency Volunteers MREV	0.5
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:Quality Management	Optimizing your Quality Management Effort	0.83
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:Quality Management	Predicting Treatment Table Coordinates to Reduce First Fraction Overrides	0.2
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:External Beam	Remodeling Pinnacle Physics Model to Correct Small Field Size Output Factors	0.33
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:Intensity-modulated Radiotherapy	SBRT Lung using Single Arc VMAT- Clinical Implementation and verification using 6D motion platform	0.33
Spring Meeting of North Central Chapter of AAPM	04/20/2012	Radiotherapy:Radiation Protection	Using a Digital Primalert for HDR Room Safety	0.33
Total Released Credits:				197.27

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**RECORD OF ATTENDANCE**  
 Radiological Society of North America  
 99th Scientific Assembly and Annual Meeting

Tony Murphy  
 1417 Cougar Ct  
 Sartell, MN 56377

Date: December 2013  
 Badge No: 1625

The Radiological Society of North America (RSNA) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The RSNA designates this live activity for a maximum of 93.75 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The RSNA certifies that Tony Murphy has participated in the live activity titled Radiological Society of North America 99th Scientific Assembly and Annual Meeting in Chicago, IL on December 1-6, 2013. This activity was designated for 31.50 *AMA PRA Category 1 Credits*<sup>™</sup>.

This record confirms that the individual designated attended the RSNA 2013 Scientific Assembly and Annual Meeting and participated in the below listed activities. Attendance at these activities should not be construed as training that would constitute competency in the subject matter. It is the responsibility of the individual to correct his/her own records in accordance with the honor system customarily observed in reporting continuing medical education credits. This record of attendance is available only to the designated individual and will not be supplied to accrediting agencies and other organizations. The individual is charged with the responsibility of maintaining his/her own record of accumulated credits.

*Mark G. Watson*  
 Mark G. Watson  
 RSNA Executive Director

**Total: 31.50**

CL-NMS-MOA	Nuclear Medicine - Monday Posters and Exhibits (12:15pm - 12:45pm)	NM	.50
CL-NMS-MOB	Nuclear Medicine - Monday Posters and Exhibits (12:45pm - 1:15pm)	NM	.50
CL-NMS-SUA	Nuclear Medicine - Sunday Posters and Exhibits (12:30pm - 1:00pm)	NM	.50
LL-BRS-TUA	Breast - Tuesday Posters and Exhibits (12:15pm - 12:45pm)	BR	.50
MSCM23	Case-based Review of Magnetic Resonance: Woman's Imaging (An Interactive Session)	BR,GU,OB,MR	1.50
RC121	Medical Physics 2.0: Computed Tomography	CT,PH	1.50
RC221	Medical Physics 2.0: Mammography	BR,DM,PH	1.50
RC321	Medical Physics 2.0: Nuclear Imaging	NM,PH	1.50
RC403	Cardiac PET/CT and PET/MR	CA,CT,MR,NM	1.50
RC525	Quantitative Imaging: Quantitative Imaging in FDG-PET	BQ,NM,PH	1.50
RC621	Medical Physics 2.0: Ultrasonography	US,PH	1.50
RC710	Ultrasound of Superficial Structures (An Interactive Session)	US,GN	1.50
RC821	Medical Physics 2.0: Magnetic Resonance Imaging	MR,PH	1.50
SPPH01	AAPM/RSNA Physics Tutorial for Residents: Control of Dose in Computed Tomography	CT,PH,QA	2.00
SPPH02	AAPM/RSNA Tutorial on Equipment Selection: Imaging Systems Designed to Reduce CT Dose and Maintain Image Quality	CT,PH,QA	2.00
SPSH40	Hot Topic Session: Indications for MRI versus Low Dose CT in Congenital Heart Disease	CA,CT,MR	1.00
SPSI24	Special Interest Session: Breast Density: Risk Assessment, Communication, and Approaches to Supplemental Imaging	BR	1.50



SSA21	Physics (Ultrasound)	US,PH	1.50
SSC14	Physics (MRI Techniques I)	MR,PH	1.50
SSE20	Nuclear Medicine (SPECT/CT)	CT,NM	1.00
SSG01	ISP: Breast Imaging (Nuclear/Molecular Imaging)	BR,MI,NM	1.50
SSJ24	Physics (MRI Techniques II)	MR,PH	1.00
SSK17	Nuclear Medicine (PET/MRI for Oncology)	MR,NM,OI,RO	1.50
SSQ01	Breast Imaging (Ultrasound Screening)	BR,OI,US	1.50

Total 31.5 hrs not included  
on previous CAMPEP  
listing

Overall total from  
1/1/11 through 12/31/13  
= 228.77 hrs  
in all Modalities