

## Message from the Chairman



It is impossible to escape news coverage on the economic situation in the United States. The national crisis is affecting every part of our country. We at MUSC are no exception and have felt the impact of the national economic downturn. State appropriated money to MUSC and to our department has decreased significantly forcing us to make changes in how we will operate over the next 2 years. While times are uncertain, I am confident that we will work through this financial crisis by increasing our productivity and enhancing our efficiency.

I know that all of you are feeling this economic impact in your personal life, too, and I appreciate the fact that there has been a significant display of allegiance to MUSC in all your efforts. I have been told that many of you are participating in the small acts that have been suggested, such as turning off computers and lights whenever possible and being frugal in your department spending. These actions add up in the long run to big savings not only for our department but for the hospital at large.

We have seen a true sense of employee loyalty and morale in working through these tough times. Thank you all for your support.

*Philip Costello, M.D.*

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December 3, 2008

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## Radiology Department Holiday Party

Saturday, December 20, 2008

7-11pm

Charleston Visitors Center  
375 Meeting Street

Free to Radiology Staff, Guests tickets \$10  
After December 8th at 3pm, staff & guest tickets are \$50.

Cocktail Buffet & Dancing

For tickets, see Janette Brown (2-4030), Debbie Middleton (2-1957),  
Ginger Raulinaitis (2-4637) or Dionne Smalls (6-7154).





### Donald Frey, PhD to Retire in December

After 37 years at MUSC, Dr. Frey is retiring as a full-time professor of medical physics.

Dr. Frey joined the radiology faculty after he received his PhD in Nuclear Physics from MUSC. During his career, he served in a number of leadership roles at MUSC including Director of Diagnostic Physics and Associate Chairman of Technical Development.

Throughout his career, Dr. Frey has been extensively involved in a number of professional organizations, many in which he held leadership and committee positions. He will continue his relationship with MUSC working during the months of June, July and August.

To learn more about Dr. Frey and his accomplishments, please visit [www.musc.edu/radiology](http://www.musc.edu/radiology). (On the left side menu, click faculty.)

### Two from department run Green & Lean 5K

The Third Annual Green and Lean 5K took place on November 8, 2008.

Keep Charleston Beautiful and Lowcountry Earth Force sponsored the 3rd Annual Green and Lean 5K. All proceeds are going to environmental education programs. Monica Mumme won in her age group and Bayne Selby placed 2nd in his age group. Congratulations!



Dr. Bayne Selby & Monica Mumme, RN



### PACS Upgrade

IT staff continues to work on the PACS system upgrade. Upgrades are expected to be complete in January 2009.

Look for forthcoming information in future editions of the newsletter as well as at each PACS workstation.

## Welcome back from RSNA!

Welcome back to our faculty, residents and students who attended and presented at the RSNA (Radiological Society of North America) conference in Chicago. Every year we have a great presence at the conference and this year was no exception. Congratulations to all who presented and attended the conference.

### 2008 RSNA Presenters & Topics from MUSC

#### Faculty



#### **Donald Frey, MD**

- Innovations & Advances in Medical Imaging Technology-ACR Accreditation of SPECT and PET
- Introduction to ACR Accreditation of SPECT and PET
- Innovations & Advances in Medical Imaging Technology-ABR Radiologic Physics



#### **Thomas Pope, MD**

- MR-guided Breast Biopsy (Hands-on Workshop)



#### **U. Joseph Schoepf, MD**

- Cardiac CT •Dual Source CT of the Heart • Emerging CT Technologies • New Developments in SPECT & PET of the Heart • Realistic Risks of Radiation-induced Cancer in a Clinical Patient Population Undergoing Cardiac CT • Coronary Artery Disease II: Native Vessel Disease • Principles & Techniques of Cardiac CT Angio & MR Imaging & Radiation Reduction Strategies • Coronary Artery Imaging • Evaluation of Ischemia with CT, MR & Nuclear Imaging • Evaluation of Acute Chest Pain



#### **Zoran Rumboldt, MD**

- Doses to Patients Undergoing Cerebral Angiography with CTA and DSA



#### **Gorka Bastarrika, MD (Visiting Faculty)**

- Epicardial & Intrathoracic Fat But Not Subcutaneous Fat are Associated with the Extent of Coronary Artery Disease
- Epicardial Fat: Reproducibility & Clinical Validity of Quantification at Cardiac CT Using Manual Bi-dimensional & Automatic Volumetric Measurements



#### **Eva Maria Gassner, MD (Visiting Faculty)**

- Dynamic Visualization of the Pulmonary Valve at Cardiac CT
- Assessment of Three Different Methods for Measuring Left Atrial Volumes Using Cardiac CT: Comparison with Echocardiography
- Performance of a Dynamic Aortic Valve Model for Quantification of the Opening Area at Cardiac MDCT: Comparison to Manual Planimetry

**2008 RSNA Presenters & Topics from MUSC** (Continued)**Fellows****Balazs Ruzsics, MD**

- Biomarkers of Atherosclerotic Disease Activity & Myocardial Remodeling: Correlation with Findings at Cardiac CT
- Adenosine Stress Dual-Energy CT of the Heart for Diagnosing Myocardial Ischemia and Viability Compared with Cardiac MRI & SPECT: Initial Experience
- Dual-Energy CT of the Heart for Diagnosing Coronary Artery Stenosis & Myocardial Ischemia: Initial Experience

**Residents****Dobrinka Dimitrova, MD**

- Pediatric Effective Doses in Body CT

**Pal Suranyi, MD, PhD**

- Predictive Value of Findings of ECG-gated CT Angiography for Patient Outcome & Major Adverse Cardiac Events after Coronary Artery Bypass Graft Surgery
- Computerized Patient-based Dosing of Contrast Media Delivery at Coronary CT Angiography
- Vessel Wall Hemodynamics & Coronary Artery Plaque Formation: Morphological Analysis with

Coronary CT Angiography

- Use of a Calcium Scoring Scan to Guide ECG-Pulsing at Coronary CT Angiography: Potential for Radiation Dose Reduction

**Students****Kevin Blackman, BS**

- Computer-aided Diagnosis of Pulmonary Embolism at Pulmonary CT Angiography: Can It Improve Sensitivity of Inexperienced Readers
- Automated Assessment of Non-Calcified Coronary Artery Plaque Burden at Coronary CT Angiography

**Joseph Abro, BS**

- Prognostic Value of Stenosis Severity & Atherosclerotic Plaque Burden at Coronary CT Angiography for Major Adverse Cardiac Events (MACE): A Population-based Outcome Study

## Radiology Podcasts available on MUSC Health website

Podcasts are a series of audio or video files that can be viewed over the internet or downloaded to an iPod or MP3 player. Health related podcasts are available on the MUSC Health website. The podcasts available cover a variety of topics on health, procedures and illnesses, which can be searched by topic or physician interviewed. Podcasts specifically related to radiology can be found by entering "radiology" in the search box on the web page.

### MUSC Health Podcast Library website:

[www.muschealth.com/podcast](http://www.muschealth.com/podcast)

These are the podcasts currently available:

**Ultrasound: An Overview of Ultrasound Technology:** Dr. Susan Ackerman, the Director of the Ultrasound Program at MUSC, gives an overview of how an ultrasound is used, when it's most helpful and the benefits of an ultrasound as opposed to a CAT scan or an MRI.

**Ultrasound: How it's used to find an Abnormality:** Dr. Ackerman explains how an ultrasound is used as a preliminary screening tool to find abnormalities without the use of radiation.

**Radiology: Development of Interventional Radiology:** Chair of the Department of Radiology at MUSC, Dr. Philip Costello, explains how the field of radiology has evolved to include interventional procedures.

**Radiology: Excellence at MUSC:** Dr. Costello emphasizes MUSC's commitment to excellence in his department.



Dr. Nancy Curry

**Blood in the Urine: Uroradiologic Imaging:** Dr. Nancy Curry, the only uroradiologist in the state of South Carolina, talks about hematuria, or blood in the urine.

**Renal Stones: Radiologic Diagnosis:** Dr. Curry describes the medical workup of kidney stones, explaining how CT scanning has allowed progress in efficiency of diagnosis.

**Radiology: PET/CT Scan:** Radiologist Dr. Leonie Gordon explains the use of PET/CT technology for detecting tumors, dementia, strokes, and metastasis of cancer.



Dr. Leonie Gordon



Dr. Walter Huda

**Radiology: Radiation Exposure:** Dr. Walter Huda, a medical physicist, addresses the health risks associated with radiation exposure from both radiological procedures and background radiation in our daily lives.

**Radiology: Radiological Examinations:** Dr. Huda explains the role of a medical physicist in overseeing the successful and safe functioning of radiological equipment.

**Breast Cancer Screening: Digital Mammography:** Diagnostic radiologist Dr. Thomas Pope goes over the radiographic technique of digital mammography for breast cancer screening.

**Lung Cancer: Radiological Diagnosis (Part 1):** Radiologist Dr. James Ravenel, a specialist in the area of thoracic imaging, talks about screening for lung cancer.

**Lung Cancer: Radiological Diagnosis (Part 2):** Dr. Ravenel continues from part one of this radiology podcast series, discussing the course of radiological evaluation for lung nodules



Dr. James Ravenel

**Podcasts Available (Continued)**

**Radiology: Controversy Over Screening:** Dr. Ravenel discusses the controversy over screening for certain illnesses.

**Radiology: MRI versus CT Scanning:** Dr. Zoran Rumboldt, Chief of the Neuroradiology section at MUSC, explains the difference between two common radiologic procedures – CT and MR scans.

**Imaging Studies of the Aorta: Overview of the Aorta:** Radiologist, Dr. Joseph Schoepf, gives an overview of the aortas function and talks about the most common illnesses of the aorta such as aortic aneurysms, hypertension and high blood pressure.

**Imaging Studies of the Femoral Artery: Overview of the Femoral Artery:** Dr. Schoepf explains the different techniques used to test if blood is flowing properly from the femoral artery to the lower extremities.

**Imaging Studies of the Heart & Vascular System: Cat Scan Technology:** Dr. Schoepf explains in detail the use of a cat scan/CT for heart related problems and talks about who the ideal candidate is that will have a CT scan for a diagnosis, as opposed to other tests.

**Imaging Studies: Coronary Artery Disease and Atherosclerosis:** Dr. Schoepf explains how imaging studies are used to detect coronary artery disease.

**Interventional Radiology: A Growing Field:** Interventional radiologist Dr. Bayne Selby describes how the field of interventional radiology has progressed to image guided surgeries.

**Interventional Radiology: Fibroids and Uterine Artery Embolization:** Dr. Selby discusses a procedure called uterine artery embolization for fibroids, which are benign tumors of the uterus.

**Interventional Radiology: Varicose Veins:** Dr. Selby talks about progress in the treatment of varicose veins toward the less invasive techniques of interventional radiology.



Dr. Aquilla Turk

**Aneurysms: Neuroradiologic Treatment:** Dr. Aquilla “Quill” Turk, an interventional neuroradiologist, provides an overview of brain aneurysms and describes ways in which patients present with this medical condition.

**Stroke: Transient Ischemic Attack (TIA):** Dr. Turk discusses transient ischemic attacks (TIAs), their underlying causes and how they present.

**Stroke: Treatment of Acute Stroke:** Dr. Turk describes the presenting symptoms of an acute stroke, noting the importance and benefits of receiving immediate medical care.

**Vascular Problems: A Team Approach:** Dr. Turk talks about the importance of a team approach for treating disorders of blood vessels in the brain.

**Vascular Problems: Arteriovenous Malformations:** Dr. Turk presents an overview of a vascular problem called an arteriovenous malformation (AVM).

**Liver Cancer: Radiologic Treatments:** Dr. Renan Uflacker explains how various radiologic treatments are used to eliminate cancer cells in liver, kidney and other organs.

**Cerebrovascular Disease: Stents to Repair Carotid Artery Blockage:** Dr. Uflacker defines interventional radiology and the use of carotid stents to repair carotid arteries.



Dr. Renan Uflacker

**Liver Cancer: Conversation with a Liver Cancer Survivor:** Elroy Dantzler, a liver cancer survivor, tells his incredible story of living cancer free for 5 years after receiving multiple treatments with chemoembolization and radio frequency ablations from Dr. Renan Uflacker.

## Rad Tech Week Raffle Finds a Winner

The department celebrated Radiologic Technologist week November 3-7 with a sweet grass basket raffle.

**Sheryl Plowden**, an X-ray Tech in the bone density department, won the handmade basket created and donated by Raymond Manigault. Upon winning, Sheryl explained, "I am thrilled to have won the basket. It is the first one I have ever owned and I have it on display in my house!"

Sweetgrass baskets are a Charleston area artistry that dates back over 300 years. The art of basket-making has been handed down from generation to generation.

Sheryl Plowden, X-ray Tech



## MUSC Children's Hospital 2008 Collection of Holiday Cards



Each year patients, siblings and young friends of the Children's Hospital contribute their creative artwork for the holiday card program. With local sponsors underwriting the costs of this project, all proceeds will benefit the research and programs at the MUSC Children's Hospital.

\$15 per pack of 17 assorted cards

All Proceeds benefit the MUSC Children's Hospital Fund.

To Order, call 843-792-3321 or visit [www.musckids.com](http://www.musckids.com)

## We Would Love to Hear From You!

What achievements and activities have you or one of your colleagues accomplished this month?

Have you read an article that may be of interest to the Department of Radiology?

Have we missed any important upcoming events?

If you have ideas or would like to contribute to the newsletter, the deadline for the January edition will be December 19, 2008.

**Call Amy Hill at 2-4418 or email at [hillam@musc.edu](mailto:hillam@musc.edu).**