End of the Year Dinner

The annual End of the Year Dinner was held on June 2nd at Wildfire Chicago, where we honored the senior residents and fellows who finished their training this year.

Graduating Seniors

Radiology residents and spouses

MSK Fellow, Narayan Sundaram (left) with Dr. Larry Dixon.

IR Faculty & Fellow - L to R: S. Zangan, R. Navuluri, D. Cheng and L. Lorenz

2012 Award Recipients

Chien-Tai Lu
Osman Ahmed, MD

Musculoskeletal Imaging
Barry Hansford, MD

Neuroradiology
Piotr Obara, MD

Professionalism
Ryan Lo, MD

Weiss Award
Taral Doshi, MD

ACR In-Service Award
Piotr Obara, MD
Barry Hansford, MD

Marc Tetalman Award
Seng Ong, MD

Fellow Teaching Award
Danny Cheng, MD

Senior Class Appreciation
Seng Ong, MD
Narayan Sundaram, MD

Roentgen Resident Research Award
Neel Patel, MD

Congratulations to All!
Congratulations to the following faculty on their achievements & grant awards

**Patrick LaRiviere** – Toshiba contract awarded funding in the amount of $75,000 entitled “Fully Iterative Reconstruction for Photon counting CT” for Project Period: 07/01/11 – 06/30/12

**Xiaochuan Pan** – NIH grant awarded funding in the amount of $410,720 entitled “Targeted Imaging in Helical Cone-Beam CT” for Project Period: 02/07/11-01/31/2015

**Xiaochuan Pan** – Toshiba contract awarded funding in the amount of $75,000 entitled “Investigation of Sparse View Iterative Reconstruction and General Image Quality Assessment” for Project Period: 07/01/11-06/30/12

**Aytekin Oto** – Philips Electronic contract awarded funding entitled “Novel Approaches to DWI of the Prostate Project” for Project Period: 01/01/12-06/30/13

**Steffen Sammet** – Cancer Research Foundation young investigators award for $75,000 entitled “High Intensity Focused Ultrasound Ablation of Prostate Tissue in vivo with Magnetic Resonance” for Project Period: 01/01/12-06/30/13

**Steffen Sammet** – AIUM grant proposal “Detection of Physiologic Changes within the Median Nerve Utilizing US/CI/NCV, and MRI” received $10,000 in funding as co-PI.

**Steffen Sammet** – National Cancer Institute (NCI) funded Cancer Education and Career Development program (R25), Cancer Nanotechnology in Imaging and Radiotherapy Budget Total: $540,926 PI: Gayle Woloshak, Ph.D. Trainee: Steffen Sammet, M.D., Ph.D.

**Aytekin Oto & Steffen Sammet** – Philips Medical Systems contract awarded funding in the amount of $70,000 entitled “MRI Guided HIFU Treatment of Prostate In-Vivo Project” for Project Period: 09/01/11-08/31/12

**Chin-Tu Chen** – NIH Subcontract (UI/UC) awarded funding in the amount of $560,000 entitled “An Ultra High Resolution Spect System Integrated with High Field MRI Scanner” for Project Period: 07/01/11-06/30/15

**Greg Karczmar and Gillian Newstead** received a ‘Ticket for the Cure’ award from the Illinois Dept. of Public Health ($200K) to fund development and testing of quantitative MRI methods to improve management of high risk breast lesions. A similar study received a CTSA award ($75K) to support a collaboration with our Northshore colleagues (Dr. Kathy Yao and Dr. John Kotzoglou)

**Hiroyuki Abe** - NCI contract grant “Novel Diffusion Tensor Imaging CAD for Breast Cancer.” funded for $45,741

**Maryellen Giger** – NIBIB grant awarded funding in the amount of $107,846 entitled “Research Training in Medical Physics” for Project Period: 09/15/11-11/08/12

**Maryellen Giger** – Maria Myrianthopoulos awarded gift funding in the amount of $13,609.31 entitled: Committee on Medical Physics (Leon Myrianthopoulos Memorial Fund).

**Bob Nishikawa** – Appointed Member: International Advisory Board for the journal: Physics in Medicine and Biology

**Bob Nishikawa** - Paper “Detection of clustered microcalcifications using spatial point process modeling.” was selected to be one of 25 papers in the Physics of Medicine and Biology Highlights Collection 2011 as co-author with collaborators at IIT, Yongyi Yang, Ph.D., and his graduate student Hao Jing.

**Bob Nishikawa** - R21 received a perfect score (10) from the study section entitled: Quantitative Evaluation of Reconstruction Algorithms.

**Charlene Sennett** – “Cum Laude” award at RSNA 2011. Title: Axillary Imaging and the Current Status of Axillary Staging in Breast Cancer: What the Imager Should Know. Authors: Jacob Ecanow, MD, Hiroyuki Abe, MD; Gillian Newstead, MD; David Ecanow, MD; Jan Jeske, MD

**Steffen Sammet** – Appointment by the American Registry for Diagnostic Medical Sonography (ARDMS) for the Exam Development Task Force (EDTF) Sonography Principles & Instrumentation (SPI), Rockville, MD

**Maryellen Giger** – Elected to the Board of the SPIE - effective start date of Jan. 1, 2012 and appointed to the Board of CAMPEP (via RSNA nomination) - effective start date of Jan. 1, 201
Hey Alums—We want to hear from YOU!
Do you have any accomplishments or achievements that you would like to share? Or do you just want to let your colleagues know what you’ve been up to?
E-mail Mandy at mvelligan@radiology.bsd.uchicago.edu and give us an update that we can share in our next newsletter!


Chien-Min Kao – NIH R21 grant entitled “In-vivo Rat Brain PET Study of Task Specific Motor Recovery After Stroke” in the amount of $175,222.

Greg Karczmar - NorthShore Univ/NIH grant entitled “Use of Quantitative MRI to Identify Patients with High Risk Lesions Who Can Avoid surgery” in the amount of $43,000.

Patrick La Riviere – Washington University/NIH subcontract entitled “Low Dose Strategies to Enable Clinical Dynamic Perfusion” in the amount of $429,668.


Brian Roman - PHSN/NCI entitled “UCCCC/ANL” awarded in the amount of $35,000.

Steffen Sammet – Northwestern/NIH subcontract entitled “Cancer Nanotechnology in Imaging and Radiotherapy” in the amount of $32,753.

Emil Sidky – NIH grant entitled “R01- Limited Angle Image Reconstruction” in the amount of $1,316,087.

Thuong Van Ha – Bard Peripheral Vascular entitled “A Prospective, Multi-Center, Study of the BARD® DENALI® Retrievable Vena Cava Filter System awarded in the amount of $111,043.

Dr. Chin-Tu Chen has been appointed to the NIH Biomedical Imaging Technology “A” Study Section, Center for Scientific Review. Dr. Chen also received the Fermilab Seed Grant in the amount of $43,000.

Dr. Maryellen Giger served as PI on the clinical reader study for U-Systems’ PMA application and presentation to the FDA Radiological Devices Medical Advisory Panel, which voted unanimous approval.

Dr. Stephen Thomas was one of 25 selected nationally to attend the 2012 ARRS Clinician Educator Development Program.

Valencia Franklin, MBA, CPA has accepted the position of Assistant Director BSD finance starting June 1, 2012. Valencia is currently the Associate Director of Accounting Budget and Accounts Payable.

Achievements continued...
Welcome New Housestaff - Class of 2016!

2012 graduates ... Where are they now?

<table>
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<tr>
<th>Residents</th>
<th>Fellows</th>
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<tbody>
<tr>
<td>Dr. Parag Amin – Clinical &amp; Research MRI fellowship at Northwestern</td>
<td>Dr. Leon Wise (AI) – position with St. Mary’s Hospital</td>
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<tr>
<td>Dr. Colin Brown – Body MRI fellowship at NorthShore University</td>
<td>Dr. Narayan Sundaram (MSK) - position with Cancer Treatment Centers of America</td>
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<tr>
<td>Dr. Andrew Hall – Interventional Radiology at Baptist Cardiac and Vascular Institute</td>
<td>Dr. Danny Cheng (IR) - academic position at UC Davis</td>
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<tr>
<td>Dr. Rony Kampalath – Body Imaging Fellowship - Texas</td>
<td>Dr. Jay Patel (IR) - private practice, Sioux Falls, SD</td>
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<tr>
<td>Dr. Avnit Kapur – Body MRI fellowship at NorthShore University</td>
<td>Dr. Christopher Buckle (Neuro) - University Radiology Group in NJ</td>
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<tr>
<td>Dr. Aswin Krishnamoorthy – Neuroradiology Fellowship – Brigham and Women’s</td>
<td>Dr. Sarah Orrin (Neuro) - position with Christ Hospital</td>
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<tr>
<td>Dr. Valeria Potigailo – Neuroradiology Fellowship – U of C</td>
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<tr>
<td>Dr. Joseph Yacoub – Body MRI Fellowship – Northwestern University</td>
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Radiology Residents Receive iPads

Just a few months ago, the Hodges Society provided iPads to the University of Chicago radiology residents. The addition of mobile devices has been a huge boost for both learning and cooperation. By accessing a centralized journal cache, we quickly can read, edit and share pertinent articles using apps such as Goodreader. Paperless journal clubs are now the norm. Not only have the tablets eliminated the need to print, organize and transport articles, they have let us use the ‘reader’ function to access a huge volume of full texts available online. Referencing several articles and texts simultaneously is now possible in previously prohibitive spaces like on the bus to work, in the passenger seat or in a favorite café. On top of rendering the already available resources more easily accessed and transferred between residents, several applications such as ED Radiology and CTisus iQuiz allow scrolling through axial images and interacting with educational programs in ways not previously possible. Since the FDA approved the first diagnostic radiology app in February 2011, it is conceivable that we may be able to assist one another with difficult call cases regardless of our location when a co-resident is in need. There have been many ways that the iPads have helped our learning, and morale, but most of us believe the best is yet to come! - submitted by the class of 2015
Charles E. Metz, professor of radiology and a member of the Committee on Medical Physics at the University of Chicago Medicine, died from pancreatic cancer on July 4 at his home in Burr Ridge. He was 69 years old.

Metz, a recognized leader in using mathematics to assess and improve the accuracy of diagnostic tests, made contributions to radiological imaging, nuclear medicine and computer-aided diagnosis. He developed the “Metz filter,” widely used to enhance resolution and remove distractions from nuclear-medicine images. He was perhaps best known for extending receiver operating characteristic analysis to the medical imaging field and for providing, free of charge, an extensive package of computer software to more than 10,000 registered users worldwide.

Metz’s pioneering work is highly regarded and widely cited. He contributed to image collection, improved recovery of three-dimensional information from overlapping two-dimensional images, and applied novel evaluation methods to conventional and digital X-ray images. More recently, he focused on large-scale evaluation of computer-aided diagnosis in mammography, chest X-rays and CT scans.

“Charles was a true scientist, educator and mentor of the highest caliber,” said Maryellen Giger, professor and vice chair for basic science research in the Department of Radiology, chair of the Committee on Medical Physics and director of the Imaging Research Institute at the University of Chicago Medicine. “He was one of the giants in elucidating the mathematical foundations of imaging science.”

He also was an extraordinary teacher for colleagues as well as the students who came to him for advice. “Whether you were a tenured professor or an undergraduate, he could explain anything in the field in the most thorough and appropriate way,” recalled Giger, a former graduate student with Metz. “He would go through it with you until he was convinced you understood it.”

Ronald Thisted, chairman of Health Studies at the University of Chicago Medicine, called him “an ideal colleague.”

“He was generous with his time, especially with younger colleagues,” Thisted said. “He would consider your ideas or read your manuscript carefully and make valuable suggestions. His advice was always positive, encouraging and constructive.”

Metz focused his attention on ROC analysis, which emerged during World War II for use with radar signals.

“ROC provided radiologists with a way to objectively measure how data are presented in an image, how people perceive those images and how to compare different observers or different imaging modalities with each other,” said chest-imaging specialist Heber MacMahon, professor of radiology at the University of Chicago Medicine. “Charles adopted the theoretical principles from other fields and wrote the definitive papers applying ROC analysis to radiology. His work helps us make better clinical decisions from diagnostic images.”

Charles Edgar Metz was born Sept. 11, 1942, in Bay Shore, N.Y. His family moved to Freeport, Long Island, when he was 4 years old. He graduated with honors from Bowdoin College in Brunswick, Maine, with a bachelor’s degree in physics, followed by a master’s degree in 1966 and a PhD in radiological physics from the University of Pennsylvania in 1969. He met his wife, also a graduate student, at Penn and they married in 1967. Although they divorced in 1987, they remained close friends.

He came to UChicago soon after graduation as an instructor in Radiology and the Argonne Cancer Research Hospital, a campus facility sponsored by the Atomic Energy Commission and dedicated to the study of atomic energy in the detection and treatment of cancer. He stayed at UChicago for the rest of his career, rising to assistant professor in 1971, associate professor in 1975 and professor in 1980. He served as director of the graduate programs in medical physics from 1979 to 1986 and on multiple institutional as well as national and international committees and advisory boards, including study sections for the National Institutes of Health.

Metz published more than 250 scientific papers – one of which, “Basic principles of ROC analysis” – has been cited nearly 3,000 times since it was published in 1978, according to Google Scholar. He holds four patents for image-analysis tools. He served as an advisor for 38 doctoral students, many of whom are now leading figures in the field, and has presented more than 80 invited lectures throughout the United States, Europe and Japan. Metz received awards for teaching as well as research. He was named a fellow by the American Association of Physicists in Medicine in 2004 and honored with the L.H. Gray Medal from the International Commission on Radiation Units and Measurements at its Conference of Medical Physics in Nuremberg, Germany, in 2005 for his “fundamental contributions to basic and applied radiation science.”

Metz is survived by his daughters, Molly Metz of Seattle, Wash., and Becky Metz Mavon of Western Springs, Ill.; grandchildren Charlie, Avery and Oni; and former wife, Maryann Metz of Chicago.

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