



SUMMER 2009

focus



FROM YOUR PRESIDENT

Dr. Lynn Fordham

I hope that everyone is having a great summer. I also hope that you take a moment to look through this issue of the AAWR *Focus* newsletter. In it you will find several interesting articles and details on the outstanding programs that were offered at the American Roentgen Ray Society meeting and the Society for Pediatric Radiology. The Kudos and Plaudits section lists some of the many outstanding accomplishments of our members. Congratulations to all. You will also find nominations for awards. Now is the time to recognize your mentor for all she did for you or to reward the outstanding work of a resident in Diagnostic or Therapeutic Radiology presenting at RSNA 2009.

Speaking of RSNA, I also encourage you to plan to attend the luncheon sessions. Guests are also welcome and many guests go on to become members. Each session is unique and all members are invited to attend each and every session. Monday will be the business meeting and awards ceremony. Tuesday-Thursday are the President's, Residents and International lunches, each with a speaker focused on a professional development topic for our members. These programs are not listed in the RSNA materials. You will receive more information on the details via email from the AAWR as we get closer to the RSNA meeting. A few onsite reservations may be available. You can check at the AAWR booth at the RSNA meeting. Registration in advance is greatly appreciated.

I would like to take a moment to thank all of you who answered the recent AAWR survey. The results were extremely helpful in guiding the Executive and Strategic Planning committees when we met in Washington, DC in May. Overall, the members who responded to the survey are very happy with the current programs and would like them continued in their current form. The many thoughtful comments have provided guidance for cost cutting measures as well as for planning new opportunities via the Internet, the AAWR Web site and local and national society meetings. I would like to thank the committee members for all their hard work and for attending the meeting in Washington. The committees will continue to work towards shaping the AAWR of the future to better serve the needs of our current and future members. There has been a lot of progress made for women in Radiology and there are many achievements to celebrate. However, there continue to be many challenges and obstacles to overcome at both the local and national level. For further inspiration I suggest this newsletter and the AAWR Web site. Happy reading!

Best wishes,

Lynn Fordham, MD

in *focus*

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2010 AAWR EXECUTIVE COMMITTEE NOMINATIONS

Below is the proposed slate of candidates for the 2010 AAWR Executive Committee. The membership will vote on this slate during the Annual Business Meeting, which will take place on Monday, November 30, 2009, at the RSNA Annual Meeting. At that time, nominations from the floor will also be requested.

If you are unable to attend the Members' Business Meeting, but would like to cast your vote, please access the nomination slate via the AAWR Web site, www.aawr.org. All ballots should be returned to the AAWR Office via fax at 713-960-0488 by **Friday, November 6th**.



**Past President:
Dr. Lynn Fordham**

Lynn Fordham, MD is the Section Chief of Pediatric Radiology at the University of North Carolina. She attended Tufts University Medical School, completed her radiology residency at the University of North Carolina, and a fellowship in pediatric radiology at Children's Hospital in Boston. She has been a member of the AAWR since 1989, and has served on the Membership Committee for six years, acting as chairman of the committee for four years. She is currently the president of the AAWR, and is the chair of the Association's Strategic Planning Committee. Her favorite benefits from the AAWR are RSNA and SPR luncheon presentations: "I enjoy AAWR because of the opportunities to meet, work with and learn from the many interesting and inspiring women in the Organization."



**President:
Dr. Zhongxing Liao**

Zhongxing Liao, MD is a professor and Center Medical Director, Department of Radiation Oncology, the University of Texas M. D. Anderson Cancer Center. She was the Chair of the AAWR Radiation Oncology Committee for 4 years. She currently serves as the president-elect president of the AAWR, and was the Editor-in-Chief of the AAWR newsletter Focus for two years. She also serves on numerous committees of the Association, including the Radiation Oncology Committee, Web site Committee and Program Committee, which she co-chairs with Dr. Vijay Rao.

Born and raised in Hunan, China, Dr. Liao graduated from Hunan Medical College (Central South University, Xiangya School of Medicine) in 1983 and has been in the field of radiation oncology since then. Her career then took a fateful turn when she was awarded a fellowship from the World Health Organization, which allowed her to develop her career in the US. She was a research fellow in Dr. Elizabeth Travis' lab for 4 years, studying the effect of radiation effect to normal lung.

After completing residency training in 1999, she joined the faculty as an Assistant Professor in the Section of

Thoracic Radiation Oncology in the Department of Radiation Oncology. Since then, she has focused her career in patient care, translational research, education, and administrative leadership. In 2002, she was appointed Clinical Chief of the Section of Thoracic Radiation Oncology. In September 2004, she was promoted to Associate Professor (NTCA) of Radiation Oncology. In January 2007, she was appointed Center Medical Director, Department of Radiation Oncology, in the Division of Radiation Oncology. Through her efforts in clinical care, research and leadership she has contributed to her institutional and organizational mission and has been able to positively impact the care of patients with lung cancer and patients with esophageal cancer. She has been promoted as a full professor of Radiation Oncology in 2009.

Dr. Liao has served as a mentor to many physicians and residents, especially other women. She was the Co-PI on an RSNA grant "to teach the teacher from the Emerging Nations" and supervised many radiation oncologists from China. She has served on committees for many national organizations including the American Society for Radiation Oncology, known as ASTRO, the International Association for Study of Lung Cancer (IASLC), and the Fletcher Society. She is the Trustee of the Yale-China Association.

Dr. Liao specializes in radiation for thoracic malignancies, including lung cancer, esophageal cancer, thymoma, and mesothelioma. Her research focuses on innovative molecular targeted therapy for radiotherapy enhancement in tumor, translational research in physical and biological basis of lung toxicity, and integrative oncology.



**President-Elect:
Dr. Vijay M. Rao**

Vijay M. Rao, MD, FACR is the David C. Levin Professor and Chair of the Department of Radiology at Thomas Jefferson University and current vice president of AAWR. She is a graduate of the All India Institute of Medical

Sciences, India's premier medical school. She did her radiology residency at Thomas Jefferson University Hospital and has remained on the department faculty ever since. She served as Associate Chair for Education and then Vice Chair for Education, and as Co-director of Neuroradiology/ENT division. Upon her appointment as

Department Chair in 2002, she became the first woman chair of a clinical department in Jefferson's history.

Dr. Rao is recognized around the world as one of the leading experts on imaging of the head and neck. She has published 156 papers and 163 abstracts in medical literature and has edited a major textbook on head and neck radiology. She has given 176 presentations at other academic institutions and radiology meetings. In addition to her research on head and neck imaging, she is also very active and widely recognized in health services research in radiology.

Dr. Rao has held many leadership roles, including President of both the American Society of Head and Neck Radiology and the Association of Program Directors in Radiology. In 2006, she received the Achievement Award of the latter organization for her outstanding contributions to radiology education nationally. She is a member of the editorial board of several leading radiology journals. In 2005, she was honored by the Philadelphia Business Journal as one of 25 Women of Distinction throughout the region. For many years, she has been chosen by her peers to be included on Philadelphia Magazine's annual list of Top Doctors. In 2009, she was honored with a portrait presentation to the Thomas Jefferson University for her outstanding leadership and service.



**Vice President:
Dr. Julia Fielding**

Julia Fielding, MD is director of abdominal imaging and associate professor of radiology at the University of North Carolina and specializes in benign and malignant disease of the urinary and gynecologic

systems. After obtaining her undergraduate degree in chemistry at the University of Michigan, she attended medical school at the University of Pittsburgh. Dr. Fielding did her residency in diagnostic radiology at Boston University and a fellowship in MR imaging at Brigham and Women's Hospital in Boston. After several years as a staff radiologist at the Harvard Hospitals, she was recruited to the University of North Carolina in 2000. She has lectured nationally and internationally on the role of imaging in women's health. Her research focuses on the development of virtual reality as a diagnostic tool. Dr. Fielding lives in Cary, NC with her husband who is a pediatric orthopedic surgeon, her 15-year-old son and two poorly-behaved pug dogs. Dr. Fielding currently serves as the secretary of the AAWR, and is the Editor-in-Chief of the Association's newsletter, *Focus*. She also serves on six of the AAWR's committees, including the Strategic Planning Committee, Membership Committee and the Public Relations Committee, which she chairs. She has a background in the performing arts and enjoyed producing the *Manya* show presented at the 2006 RSNA.



**Treasurer:
Dr. M. Elizabeth Oates**

M. Elizabeth Oates, MD earned her A.B. summa cum laude from Smith College in Northampton, Massachusetts and her M.D. from Boston University School of Medicine in Boston, Massachusetts. She completed her transitional intern-

ship and radiology residency at the Los Angeles County Harbor-UCLA Medical Center in Torrance, California. Following a nuclear medicine fellowship at Tufts University-New England Medical Center in Boston, Dr. Oates stayed on as Director of the Division of Nuclear Medicine and also served as Program Director for the Radiology Residency Program. She joined the Boston Medical Center and Boston University School of Medicine as Section Head of Nuclear Radiology and Residency Program Director. Most recently, Dr. Oates was Vice-Chair of Radiology at UMass Memorial Medical Center and the University of Massachusetts Medical School in Worcester, Massachusetts. Currently, Dr. Oates is Professor and Chair of the Department of Radiology at the University of Kentucky College of Medicine in Lexington, Kentucky. She is Past President of The New England Chapter of The Society of Nuclear Medicine; she is actively involved with The American Board of Radiology and is Chair of the Nuclear Medicine/Molecular Category Core Examination of the Future (EOF) Development Committee, and also serves as Chair of the Nuclear Medicine Education Exhibits Subcommittee for the RSNA. Dr. Oates is married to Don Winfrey, a radar systems engineer; they have three daughters.



**Secretary:
Dr. Yoshimi Anzai**

Yoshimi Anzai, MD, MPH received her MD from Chiba University in Japan. She also completed her first radiology residency and one year of ENT surgery residency at Chiba University. She became a research

fellow at UCLA in 1990 to learn head and neck MR. Although she was supposed to return to Japan after her research year, she stayed in the United States to explore multiple opportunities for MR research and a comprehensive medical training program. At the University of Michigan, Dr. Anzai completed a second radiology residency in 1998 and a Neuroradiology fellowship in 1999. She was appointed to Assistant Professor at the University of Michigan after completing her fellowship.

Dr. Anzai relocated to the University of Washington in Seattle in 2000. Her research focus has shifted slightly to conduct health service research related to imaging, and to understand health policy issues surrounding

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radiology practice. Through the GERRAF fellowship and the AHRQ K award, she earned an MPH from School of Public Health at the University of Washington. Dr. Anzai was promoted to Associate Professor in 2002 and to Professor in 2006. She also served as the Neuroradiology fellowship program director from 2004-2008. Currently, she is the Director of Neuroradiology at the University of Washington, and she serves on numerous national committees. Dr. Anzai has authored many manuscripts, and she has served as the chair of the AAWR Membership Committee since 2006.



**Member-at-Large,
Diagnostic Radiology:
Dr. Lisa Lowe**

Lisa Lowe, MD received her MD from Meharry Medical College and completed her radiology residency at Wake Forest-Bowman Gray School of Medicine. Following residency, she

completed a Fellowship in Pediatric Radiology at National Children's Medical Center-George Washington University. In 2000, Dr. Lowe relocated to Children's Mercy Hospital and the University of Missouri-Kansas City where she has developed a Pediatric Radiology Fellowship, serving as Fellowship Director for 3 years. In 2007, Dr. Lowe became the Diagnostic Radiology Residency Program Director and Academic Chair of the UMKC Department of Radiology. She was recently promoted to Professor, has been the Director of the Pediatric section of the ARRS Case based review for the past 3 years, serves on numerous national committees and has authored many manuscripts and book chapters. She has served on many AAWR committees and is past Associate Editor of the AAWR *Focus* newsletter.



**Member-at-Large, Radiation
Oncology: Dr. Nina Mayr**

Nina A. Mayr, MD is Professor of Radiation Oncology at the Ohio State University, Arthur G. James Cancer Hospital and Solove Research Institute, where she is a member of the Ohio State University

Comprehensive Cancer Center's Experimental Therapeutics Program.

She earned her medical degree at the Ludwig Maximilians University in Munich, Germany. She completed her residency and fellowship in radiation therapy for breast and gynecologic radiation oncology at the University of Iowa in 1993, and served on the faculty for 8 years, where she advanced to the rank of Associate Professor. Before relocating to Ohio State University, she was director of Radiation Oncology and Professor and vice chair of Radiological Sciences at Oklahoma

University Health Sciences Center. She served as the Radiation Oncology Residency Program Director, created the Department of Radiation Medicine and served as its first Chair at Ohio State University. Dr. Mayr specializes in women's cancers and has earned an NIH grant for the study of functional imaging as a predictor of treatment outcome in women with cervical cancer. For her contributions, she was awarded Elected Fellow status of the American Association for the Advancement of Science in 2006 and to date is the only radiation oncologist among AAAS fellows. She has served on the AAWR Radiation Oncology Committee since 2008 and currently chairs the committee.



**Member-at-Large, In Training:
Dr. Serena McClam**

Serena McClam, MD is a radiology resident at Robert Wood Johnson University Hospital in New Brunswick, New Jersey. Dr. McClam received a Bachelor's of Psychology from Johns Hopkins University.

Thereafter, she received a Masters in Health Services Administration at the University of Michigan School of Public Health, Department of Health Management and Policy in Ann Arbor, Michigan. During her undergraduate and graduate studies, she held multiple research analyst positions within the health sciences field.

Following her graduate studies, she obtained a Fellowship in Hospital Administration at the Georgetown University Medical Center in Washington, DC. During this fellowship, she participated on the MedStar Strategic Planning Committee as well as spearheaded several hospital-wide marketing initiatives. Prior to entering medical school, she also worked as a healthcare consultant at the Advisory Board Company in Washington, DC. As a consultant, she developed clinical data analyses tools, designed client deliverables, and served on several clinical management teams.

In 2005, Dr. McClam received a Degree in Medicine at Robert Wood Johnson Medical School, University of Medicine and Dentistry in Piscataway, New Jersey. During her undergraduate medical studies, she was awarded the US Pharmacopoeia internship. As a medical student, she was involved in multiple research projects which included a study that examined barriers affecting the entrance of female medical students into radiology. These findings were presented at the annual ARRS meeting in New Orleans, Louisiana in 2005.

Following medical school graduation, Dr. McClam completed her internship in medicine at the University of Maryland Medical Center in Baltimore. She currently serves on the AAWR Executive Committee as a member in training as well as the President of the Resident and Fellow section of the Radiological Society of New Jersey. She is also a member of the American College of Radiology, the Radiological Society of North America and the American Roentgen Ray Society.



**Member-at-Large, Private Practice:
Dr. Ellen Shaw de Paredes**

Ellen Shaw de Paredes, MD, FACR is the Director of The Ellen Shaw de Paredes Institute for Women's Imaging in Richmond, Clinical Professor of Radiology at the University of Virginia, and Clinical

Professor of Medicine at VCU. She graduated from Bryn Mawr College and received her M.D. degree from West Virginia University. Her residency training in diagnostic radiology was at the Medical College of Virginia, and she is board certified by the American Board of Radiology.

Dr. Paredes joined the faculty at the University of Virginia, where she served as Chief of Breast Imaging from 1983 to 1994 and also, Vice-chair of the Department of Radiology. She then joined the faculty at the Medical College of Virginia in 1994 where she chaired the Breast Imaging Section for 11 years. In April 2005, Dr. Paredes left the Medical College of Virginia and founded The Ellen Shaw de Paredes Institute for Women's Imaging in Richmond. She also has founded The Ellen Shaw de Paredes Research Foundation, devoted to education and research on early detection of breast cancer.

Dr. Paredes is a well-known lecturer internationally in the field of Mammography, has written the textbook: Atlas of Mammography of which she has recently written the 3rd edition. She has written numerous scientific papers and book chapters. She serves as a member of the faculty in the Mammography Section at the Armed Forces Institute of Pathology. She has served as visiting professor at many universities and is well recognized for her teaching skills. She has been named Teacher of the Year and Research Mentor of the Year on numerous occasions by Radiology Department residents. In 2004 she was named the YWCA Outstanding Woman of the Year for Science and Medicine.

Her research interests are in the areas of utilization of mammography, percutaneous breast biopsy and digital mammography, which have won her a research grant from the Department of Defense on Telemammography.



**ACR Councilor:
Dr. Kimberly Applegate**

Kimberly Applegate, MD, MS, FACR received her BA in Chemistry from the University of California at Berkeley, before attending George Washington University Medical School. During medical school, she volunteered at

Scheer Memorial Hospital in Banepa, Nepal. After completing residency in diagnostic radiology at the Dartmouth-Hitchcock Medical Center in New Hampshire, Dr. Applegate served as a Pediatric Radiology Fellow at

Children's Hospital in Boston. In 2001, she completed her Master's degree at CWRU in Epidemiology and Biostatistics with an emphasis on Health Services Research. She is now a professor and vice chair of quality and safety for radiology at Emory University. Dr. Applegate is the recipient of several research grants, awards, and scholarships including an American Roentgen Ray Society Scholarship. Dr. Applegate serves or has served on editorial boards including Academic Radiology, AJR Integrative Imaging, Journal of the American College of Radiology, and Radiology, Pediatric Radiology, and Radiology. In 2000, she was the RSNA Editorial Fellow from North America and created and co-edited the Statistical Concept Series for Radiology.

She is the immediate past President of the Association for University Radiologists and was the 2006 President of the Radiology Alliance for Health Services Research. She serves or has served on multiple boards of directors including the Association for University Radiologists (AUR), Association for Program Directors in Radiology, Association for Program Coordinators in Radiology, Academy for Radiology Research, Society for Pediatric Radiology, and the AAWR. She chaired the RSNA Program subcommittee on Health Services Policy & Research while also chairing 3 other national program committees. She is active as an oral board examiner for the pediatric section of the American Board of Radiology and written exam item writer for both the non-interpretive skills and Maintenance of Certification sections. A member of the American Academy of Pediatrics section on radiology executive committee, ARRS, RSNA, as well as numerous other research and medical societies, Dr Applegate has published over 120 peer-reviewed papers and book chapters, and presented scientific papers and lectures at medical and scientific assemblies across the United States. In 2006, she was a RSNA international visiting professor in Malaysia; in 2008, she was on sabbatical and worked in Australia. In 2007, Dr. Applegate was elected to both the National Council for Radiation Protection and the Steering Committee of the American College of Radiology (ACR). For many years, she has served the American Association for Women Radiologists and was the 2003 President.

Dr. Kimberly Applegate lives with her husband, a forensic psychiatrist, their three boys, and two cats "Eragon" and "Catscan".

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**ACR Alternate Councilor:
Dr. Katarzyna Macura**

Katarzyna Macura, MD, PhD received her medical degree and PhD in Medical Informatics from the Medical Academy of Lodz, Poland. She engaged in research in the area of artificial intelligence in medicine at

the University of Georgia, Athens, GA, and subsequently completed her residency training in Diagnostic Radiology at the Medical College of Georgia. She did her fellowship training in cross-sectional body imaging at the Johns Hopkins University (JHU), where she currently holds a faculty position in the rank of associate professor. Dr. Macura serves on several committees of national radiology organizations and is a reviewer for Radiology, Radiographics, AJR and the Journal of Urology.

Dr. Macura leads the Imaging Core of the JHU Institute for Clinical and Translational Research funded through the NIH-CTSA initiative.

Dr. Macura's current clinical research interests are in genitourinary MR imaging. She received an RSNA Seed Grant for her work on MRI in female urinary incontinence and the Young Investigator Award from the Society of Computed Body Tomography and Magnetic Resonance. She received the 2006 ARRS Phillips Scholarship to pursue translational research in prostate cancer. She has published over 50 peer-reviewed papers, received three training scholarships, two software grants, three seed grants and served as a consultant or collaborator on ten federal grants. Dr. Macura was voted the top 5th women's imaging specialist in the country in a national survey of the readership of Medical Imaging Magazine and received the Outstanding Teacher of the Year Award from the radiology residents at Johns Hopkins. Dr. Macura was instrumental in the development of the AAWR Web site and served on the Web Site Committee and the AAWR Public Relations Committee prior to becoming the AAWR president in 2005. During her term, the AAWR received the AAMC's Women in Medicine Leadership Development Award. In 2007-2009, Dr. Macura continued to chair the AAWR Web site Committee and served as an ACR Alternate Councilor.

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The American Board of Radiology's Maintenance of Certification (MOC) Program

What is MOC?

Maintenance of Certification (MOC) is for diplomates who are already ABR-certified, and who are working in the 10-year cycle of maintaining that certification. Diplomates with time-limited certificates are automatically enrolled in the process, though they must initiate their activity by establishing their personal database (PDB) on the ABR website (www.abronline.org). Those with lifetime certificates should consider ABR-MOC as an investment that will document their commitment to continuing education, continuous practice improvement, and the best interests of their patients.

The MOC program evaluates six essential competencies on a continuous basis: medical knowledge, patient care, interpersonal and communication skills, professionalism, practice-based learning and improvement, and systems-based practice. MOC utilizes four components to evaluate the six competencies: evidence of professional standing, lifelong learning and self-assessment, cognitive expertise, and practice quality improvement. Diplomates must develop and maintain their personal MOC programs throughout their professional careers. Requirements for competencies and the components depend on each diplomate's practice area.

Why is MOC important?

Increasing public demand for safe, high-quality healthcare and transparency and the professional responsibilities of physicians have combined to impel a transformation in health care in the U.S. Maintenance of Certification is an integral part of the quality movement in health care. Patients and physicians value MOC because it demonstrates each physician's support for continuous quality improvement, professional development, and quality patient care.

How can I sign up?

To activate your MOC participation or to attest to your progress, log on to your Personal Database (PDB) at www.abronline.org. If you are a first-time user, you will need an ABR ID number (shown on your ABR certificate), date of birth, and a confirmation number (request at <https://www.abronline.org/requestConfirm.cfm>). To begin, go to <https://www.abronline.org/firstlogin.cfm>, enter the information listed above, and click on "Create My Account."

For more information on MOC, go to www.theabr.org and click on the Maintenance of Certification box.

AAWR LUNCHEON AT THE SOCIETY OF PEDIATRIC RADIOLOGY ANNUAL MEETING



The AAWR luncheon at the 52nd annual meeting of the Society of Pediatric Radiology in Carlsbad, California this past April was a great success. There were 30 registrants in attendance to hear AAWR's own Dr. Beverly Wood present *Why 2009 is not 1999*.

Beverly Wood, MD, MEd, PhD, FAAP is Professor Emerita of Radiology and Pediatrics at the University of Southern California and a Clinical Professor of Radiology at Loma Linda University School of Medicine. She has been a dedicated member of the AAWR since 1986. The AAWR would like to thank Drs. Lisa Lowe and Denise Collins for hosting the luncheon, their time is greatly appreciated.

Recap of AAWR Instructional Course at the 2009 American Roentgen Ray Society Annual Meeting

Dr. Judy Yee and Dr. Zhongxing Liao gave the AAWR lecture at the ARRS entitled "CT Colonography for Colorectal Cancer Screening" and "Role of Radiotherapy in Combined Modality Treatment for Locally Advanced Colorectal Cancer" on April 29, 2009. Colorectal cancer is the 3rd most common cancer in men and women and the 2nd leading cause of cancer deaths. A National Health Interview Survey found that although 73% of women are current in obtaining their mammogram and 74% of women are current in obtaining a Pap smear, only 37% of women are current in colorectal cancer screening. The advantages of using CT Colonography (CTC) for colorectal cancer screening were discussed with a review of CTC technique including lessons learned from Dr. Yee. Interpretation methods and the appearance of pitfalls were demonstrated followed by a review of the results of current validation trials. The current status of CTC reimbursement and CTC endorsement by the new joint American Cancer Society, US Multi-Society Task Force and American College of Radiology Guidelines were discussed. Dr. Liao presented the role of image guidance in the chemoradiation therapy treatment planning for colorectal cancers and discuss the importance of multidisciplinary approach towards individualized treatment. Their lectures were extremely well received by the audience at the 2009 ARRS Annual Meeting.

Dr. Benjamin Yeh and Keri Sperry-organizers of this course both commented via email:

"Drs. Yee and Liao,

I just wanted to email and thank you both for giving a wonderful course at the ARRS. The room was overflowing, with people standing out the door."

Dr. Judy Yee is professor and vice chair of radiology and biomedical imaging at UCSF. She specializes in evaluating patients with diseases of the liver, pancreas and gastrointestinal tract using advanced computed tomography scanning (CT) and magnetic resonance imaging (MRI). She is also the chief of radiology at the San Francisco VA Medical Center and the director of their 3-D Imaging Laboratory. Yee is very active in research, focusing on three-dimensional imaging of the gastrointestinal tract, in particular CT colonography, or virtual colonoscopy. She has extensive experience performing virtual colonoscopies and was the first doctor to perform one within the UCSF system.

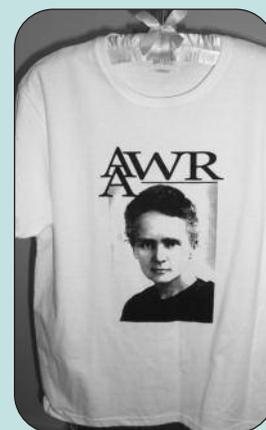


Dr. Zhongxing Liao is an associate professor of Radiation Oncology at the University of Texas M. D. Anderson Cancer Center and the President Elect of AAWR.



The AAWR T-Shirt

Thanks to the efforts of Meghan Blake, MD and a generous financial support from Ann M. Lewicki, MD, MPH, AAWR's Historian, the AAWR signature T-shirt featuring the portrait of our role model Marie Skłodowska Curie is available for sale (\$10/each) and is on display on our Web site. Please consider supporting the AAWR by adding this special T-shirt to your collection. Please contact the AAWR Office at admin@aawr.org to your order your shirt today.



RADIATION ONCOLOGY CORNER

Synergies of Multi-modality and Molecular Imaging and Advanced Radiation Therapy Planning for Personalized Radiation Medicine

By Nina A. Mayr, MD and Feng-Ming Kong, MD, PhD, MPH

If higher radiation doses can be delivered to the tumor with radiation therapy in a targeted fashion, the chance of tumor cell kill increases, the probability of tumor control is enhanced, and treatment outcome can improve. However, tumor control in radiation therapy is frequently hampered by the inability to deliver such high therapeutic doses, while at the same time minimizing radiation exposure to nearby sensitive normal tissues. Therefore traditionally large safety margins had to be added to the tumor region for radiation therapy to account for the inability to precisely determine the tumor target. This has resulted in a higher chance of “collateral damage” to the surrounding normal tissues. As a consequence, the therapeutic radiation dose to the tumor had to be lowered, compromising the chance of tumor control.

*To treat the target, we first must be able to **see** the target* - with high precision in both anatomical/geometric and biological/functional respect. This precise delineation and definition of the tumor target have long been one of the greatest dilemmas for radiation oncologists.

The rapid progress in computer science has since brought formidable advances in cross-sectional imaging, molecular imaging, image fusion and 3D reconstruction, and now enables us to *see* the target better than ever. Parallel innovations in radiation therapy delivery technologies, such as multi-leaf collimation in linear accelerators, which can shape radiation fields and modulate radiation dose, have enabled high-precision radiation therapy delivery to the tumor target with millimeter accuracy. Stereotactic localization with or without stereotactic frame immobilization, and the ability to track patient and tumor position immediately before each treatment delivery directly on the linear accelerator, have enabled sufficient accuracy in patient positioning to treat tumor targets with minimal margins and to high tumor doses. Radiation therapy has thus become one of the most targeted treatment modalities available for cancer therapy.

We can apply the same high precision that we use for imaging-based delineation of the tumor, to the actual treatment delivery. This new “cross-talk” between radiologic imaging and radiotherapeutic delivery has created a new and different synergy between the Radiology and Radiation Oncology fields, which had long ago originated from common roots.

Cross-sectional CT imaging has been the most formidable advance and remains the radiation oncologist’s main modality for tumor localization in radiation therapy. CT-simulation is now fully integrated into daily radiation oncology practice for treatment planning, and is beginning to gain wider acceptance for on-board imaging with cone beam CT imaging integrated into the linear accelerators to increase set-up precision for the actual radiation treatment delivery.

Now other modalities are following suit. Molecular imaging using positron emission tomography with ¹⁸F-fluorodeoxyglucose (FDG) and other tracers, and MRI are increasingly used in the radiation therapy planning process for tumors, where the addition of improved soft tissue contrast or molecular/biological information can provide better tumor characterization and delineation, commonly in lung cancer, head and neck, gastro-intestinal, gynecologic and other cancers.

Several studies have shown that in lung cancer FDG PET or PET/CT improve tumor delineation in approximately half of all patients. In one fourth of patients, the added PET/CT information results in a reduction of target volume by differentiating metabolically active tumor from fibrosis or atelectasis that are difficult to discern with anatomical imaging alone. The higher precision in delineating tumor extent, resulting in the exclusion of non-cancerous tissues, allows us to reduce the traditional wide safety margins of our radiation fields. This enables dose escalation to the tumor for a better therapeutic ratio. This concept is frequently used in stereotactic body radiation, a non-invasive treatment that has shown similar outcomes to surgery in early-stage lung cancer. Conversely, an increase in the target volume based on PET/CT, found in one fourth of cases, where PET/CT identifies tumor involvement that is not evident by CT alone. The tumor volume can thus be encompassed more comprehensively, and treated to the appropriate dose determined by tumor volume and normal tissue tolerance. Coupled with highly focused therapy delivery, this also enables selective intensification of the radiation dose (“dose painting”) in tumor regions that are most metabolically active or in hypoxic areas. Given the large number of lung cancers and the need to treat most lung cancer patients with radiation therapy, the use of molecular imaging for radiation therapy planning has profound impact on patient management.

Similarly, in head and neck cancer, gynecologic and gastro-intestinal and other cancers, the refined tumor

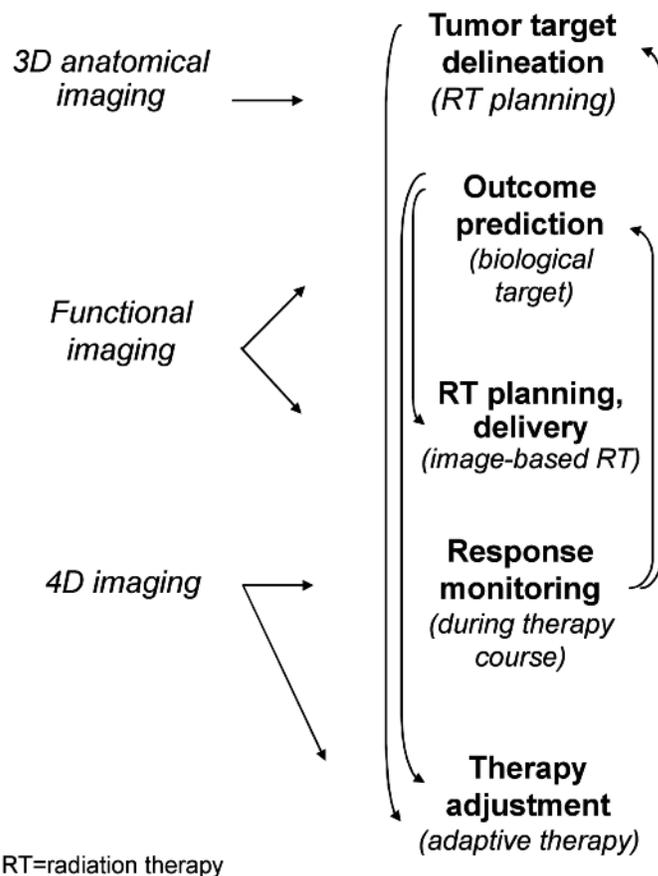
definition and target delineation through PET/CT fusion is increasingly used to design high-precision radiation therapy plans. Treatment volumes may again decrease by excluding normal, or increase by identifying more extensive involvement, such as lymph node involvement, that had not been evident on anatomical imaging.

In addition, MRI has entered into the treatment planning paradigm. The improved anatomic tissue contrast has made MRI the preferred imaging modality for high-precision target delineation in many tumors, particularly CNS, head and neck, gynecologic and GI tumors. Improved spatial and temporal resolution, and functional/molecular imaging capabilities have provided superior methods for physiological/biological characterization of tumors. These include tumor perfusion (DCE MRI) and molecular water motion (diffusion weighted MRI) that have shown promise for early assessment of tumor response and prediction of treatment outcome. Efforts are underway to develop systems that seamlessly incorporate such MRI capabilities into the treatment delivery through hybrid MRI/radiation delivery units.

Finally, integration of multi-modality imaging into the radiation therapy process provides yet another glimpse into the 3rd as well as the 4th dimension of tumor imaging: the tumor's change over time during treatment. High-precision anatomical imaging can be used for 3-dimensional volumetric tumor measurement and tumor regression *during* the radiation therapy course. Likewise, functional imaging provides not only pre-therapy but also intra-therapy assessment of the biological/functional and molecular tumor response. At such an early *intra-treatment* time point, we have a unique opportunity of adapting therapy based on the imaging findings (see figure at right).

Several functional/molecular imaging parameters have been identified as predictors of outcome. These can be obtained in an early time frame, while primary treatment is still ongoing, instead of post-therapy. For example, repeat PET-CT has a potential role to allow individualized adaptive dose escalation aimed at the most metabolically active tumor components in lung cancer that is now tested in clinical trials. If such imaging findings, including SUV changes in PET, changes in tumor perfusion, diffusion or 3D volumetric tumor change, are identified that provide early prediction of lacking treatment response and adverse outcome, many options are open to alter the course of therapy. Treatment can be intensified by radiation dose escalation or the addition of novel systemic therapies in patients with expected poor response that otherwise would not have been identified until it is too late the time of recurrence.

We have never before seen such level of precision in both the 3rd and 4th dimension in tumor imaging. Thus the synergy between Radiation Oncology and Radiology is more fruitful than ever and serves our cancer patients better than ever.



About the Authors

Dr. Nina Mayr has been a member of the AAWR since 2007 and is a Professor of Radiation Oncology at the Ohio State University, Arthur G. James Cancer Hospital and Solove Research Institute.



Dr. Feng-Ming Kong is a radiation oncologist, an associate professor, the research lead in thoracic radiation oncology of University of Michigan and the Chief of radiation oncology service of Ann Arbor Veteran Administration Hospital. Dr. Kong has been a member of the AAWR since 2003.

American Association for Women Radiologists Research and Education Foundation Awards *Call for Awards*

Deadline: August 31, 2009

Member-in-Training Award for Outstanding ASTRO Presentation

The AAWR Research and Education Foundation will give a \$500 cash award for professional development for an outstanding scientific presentation in radiation oncology at the ASTRO annual meeting in November. Applicants must have been members of the AAWR for one year at the time of application. Eligible fellows/residents may apply by writing a letter of application including the title of the paper or abstract and unique ID number. Enclose a copy of the abstract, the letter of acceptance, a current curriculum vitae, and letters of support from the department chair and AAWR nominating member with the letter of application.

Electronic submission only to: admin@aawr.org.

Member-in-Training Awards for Outstanding RSNA Presentations

Two \$500 cash awards for professional development are given to fellows/residents who are both first authors and presenters of abstracts accepted for scientific presentation at the RSNA annual meeting — one for diagnostic radiology and one for radiation oncology. Applicants must be members of the AAWR on January 1 of the year of application. Eligible fellows/residents may apply by writing a letter that states their interest in the award, title of the paper or abstract and unique ID number. Enclose a copy of the abstract with the letter of interest. **Electronic submission only to:** admin@aawr.org. Please note that each recipient will be responsible for managing the AAWR booth for one hour during the RSNA annual meeting.

International Member-in-Training Award for Outstanding RSNA Presentation

One \$100 cash award to an international member in training for an outstanding presentation during the RSNA annual meeting. The applicant must have been an international member of the AAWR on January 1 of the year of application. Eligible candidates, international AAWR members in training whose primary clinical appointment is outside USA and Canada, may apply by submitting a letter of application including the detailed information about the clinical affiliation of the applicant, the title of the scientific paper or scientific/educational exhibit, abstract and the unique ID number provided by the RSNA, and current curriculum vitae. **Electronic submission only to:** admin@aawr.org. Please note that the recipient will be responsible for managing the AAWR booth for one hour during the RSNA annual meeting.

Research Seed Grant

The AAWR Research and Education Foundation Research Seed Grant will not be awarded this year.

Additional information and application forms can be obtained from the AAWR Web site at www.aawr.org or by contacting the AAWR Office at admin@aawr.org.

EXPANDING THE ROLE AND IMPACT OF WOMEN RADIOLOGISTS

International Forum at the European Congress of Radiology, Vienna, March 2009



Ewa Kuligowska, MD, FACR
Professor of Radiology



Judy Amorosa, MD, FACR
Professor of Radiology

The number of women entering careers in Radiology has been steadily increasing over the last decade in European countries. This trend is the result of a demonstrable increase in the admission of females to medical schools throughout the world.

The increased visibility and prominent roles of women radiologists in the Radiological Societies and during national and international meetings have resulted in significantly greater recognition of women radiologists. Many women have risen to leadership positions in the USA and as well around the globe.

Women radiologists served in key leadership roles at the European Congress of Radiology (ECR) in Vienna in March 2009. Dr. Margaret Szczerbo-Trojanowska, international member of the AAWR from Poland, has served as the Chairman of the Program's Planning Committee and is President Elect of the European Congress of Radiology. The AAWR was well represented by other distinguished members at the ECR 2009!

The opening lecture was given by Hedvig Hricak MD, PhD; Chair of the Department of Radiology at New York's Memorial Sloan Kettering Cancer Center, and AAWR's "Marie Sklodowska Curie Awardee". The title of her presentation was "Imaging in Oncology Endless Horizon".

Dr. Hricak gave an excellent and provocative lecture in which she emphasized the need to change Radiology from a technology-centered specialty, to embrace physics, chemistry and biology. She quoted Charles Darwin's theory of evolution "it is species that are the most adaptable to change, not necessarily the most intelligent or the strongest, that survive".

Dr. Theresa C. McCloud, President of the RSNA from the Massachusetts General Hospital in Boston, Massachusetts, also an AAWR member and recipient of the Marie Sklodowska-Curie Award of the AAWR, was awarded an Honorary Membership in the ECR this year.

Ellen Wolf, MD, FACR, a distinguished Radiologist, Professor at Montefiore Medical Center, and a long time member of the AAWR, and recipient of the AAWR Alice Ettinger Award, gave a lecture at the ECR entitled "Computed Tomography Findings of Sigmoid Volvulus".

This was the seventh year that Dr. Judy Amorosa, Professor of Radiology from Robert Wood Johnson Medical Center in New Jersey and Dr. Ewa Kuligowska, Professor of Radiology at Boston University School of Medicine, had the opportunity to represent the AAWR at the ECR, to sponsor the AAWR booth, and to continue introducing and providing information about our organization. The AAWR is now well organized in the International arena.

The Daily Newspaper "ECR TODAY" published a photo of the AAWR booth last year, and the editor asked us to prepare an article about our organization for publication in 2009. Our article entitled "Introducing the American Association for Woman Radiologists" was published on Sunday, March 8, 2009, which was International Woman's Day. This paper describes the History, Mission, Goals and Benefits and our activities during the national meetings, particularly the RSNA. The paper occupied a whole page of "ECR TODAY" and included the AAWR logo and a photo taken during the International Luncheon on Thursday during the RSNA 2008. Dr. Malgorzata Szczerbo-Trojanowska, Neuroradiologist and Chairman of the Interventional Radiology Department in Lublin, Poland, our international member, recipient of the President's Award of the AAWR in 2004, and incoming President of the ECR in 2010, participated in the 2008 AAWR International Luncheon at the RSNA.

The future role of women in Radiology was a subject of great attention at the ECR in 2009.

The ECR sponsored an afternoon session entitled "Women in Radiology, How to Maximize their Potential" devoted to assessing Professional Challenges and was dedicated to improving the working conditions for female radiologists who compromise an important part of the work force in Europe. This session featured a panel of speakers addressing such topics as the sociology of gender employment, the working environment, family obligations and conflicts in combining parenthood with successful academic work.

Dr. Malgorzata Szczerbo-Trojanowska, served as the Moderator. Her contribution as a distinguished radiologist, leader, educator, researcher, and role model for all woman radiologists has led her to serve as President of

Expanding the Role continued from page 11

the European Congress of Radiology in 2010.

She opened the session by noting that the widespread inclusion of women in medicine is already a reality in Radiology. Such a growing number of women are entering the specialty. That in a few years, the percentage of women in Radiology in European countries will probably reach 70%.

Dr. Judy Amorosa, Dr. Ellen Wolf, and I represented the AAWR during the session. Five panelists discussed this topic, including four women radiologists and a male Radiology Chairman. They gave a review of the statistics and described the situations and conditions of female radiologists in their countries. The balance between work and standard of life seems to be the most important factor for the majority of women radiologists.

Dr. Majda M. Thurnher, Associate Professor of Radiology in the Medical University of Vienna described the changing demographics in Europe. She provided statistics for woman radiologists, their present status, their achievements during the last 20 years, and their future perspective.

Dr. Thurnher compared the European statistics with similar statistics available from the USA. While the numbers of Assistant Professors are equal with male radiologist at the same age, the number of women who are Associate and particularly Full Professors is far below the number of male radiologists. It is quite evident that many of the young female radiologists place a high priority on actively participating in the lives of their families.

Because they reach the higher professional levels later than men, women are often forced to compete later for the leadership positions, when most of these posts have already been taken by the male radiologists colleagues.

Dr. Bjorkeman-Burscher from Lund, Sweden, focused her presentation on the key conflict between combining parenthood with academic demands. A female radiologist usually has a very difficult time being involved in research and administrative tasks in their work place. Making a career in Radiology demands a lot of devotion, time, and sacrifice. This is usually in conflict with obligations of private life.

The "leaky pipe" is the term which she used to describe the career outcomes and academic advancement for women in Sweden, due to the fact that a number of female radiologists drop their jobs to care for their families, thus delaying the time for professional achievements. She reflected on possible problem solving strategies such as teleradiology or shorter work days.

Dr. C. Lopez from Bedford, UK, titled her presentation "Combining the life as a radiologist with bringing up children". She surveyed 20 female radiologists whom

she knew in the United Kingdom to describe how they managed their family duties with a demanding profession. Based on her data, survey, and on her practice, she advocates that women radiologists do only their clinical duty, no research or other administrative tasks in order to concentrate more on their families.

The final speaker was a male Chairman of the Dresden University Radiology Department, Dr. M. Laniado. His presentation was entitled "Across the gender divide: the male radiologist perspective". He pointed out how difficult it is to run a department when the majority are female physicians taking time off (from 6 months to 2 years) to care for small children. The development of a successful research and strong academic curriculum is most challenging and often an impossible goal to achieve. This is a serious problem which must be solved. This is why male radiologists have fears about the changing gender in Medicine.

In summary, Dr. Malgorzata Szczerbo-Trojanowska pointed out that there is no universal prescription for everyone, but good partnership in sharing family duties is important in achieving and maintaining professional levels together with an adaptable work environment.

This Professional Challenges Session was extremely interesting, sobering, and provocative. We were impressed with the quality of these outstanding presentations.

In the United States the statistics for female medical students are similar to European countries; more than 50% of all medical student entrants are female. The number of woman selecting radiology residencies however has remained as low as 25% for many years.

The AAWR with the American College of Radiology (ACR) and other national radiological societies have been concerned about the low number of woman selecting radiology residencies. They are emphasizing the benefits of Radiology as a subspecialty for females.

This statistic will change with time as graduating female medical school students finally recognize the many benefits that a career in Radiology offer. These benefits include;

1. The intellectual stimulation provided by state of the art Imaging Technologies
2. The crucial role of the Radiologist's in making the diagnosis, management and treatment of patients.
3. Flexibility of work (part time, night hours and teleradiology)

The AAWR together with the ACR must design legal, economical and social support and be ready for the coming future and make it possible for women radiologists to achieve professional satisfaction without sacrificing family values.

Introducing the American Association for Women Radiologists



Since the mid 1980s women have played an important role in local, state and national radiological societies and have gained significant recognition. Some women have risen to leadership positions.

In order to promote, encourage and educate all women radiologists, the AAWR was established in 1981 to address significant concerns unique to women radiologists.

At the present time, half of American medical students and 42% of radiology residents are women. Women constitute 32% of medical faculty members; 38% are assistant professors, 28% associate and only 16% of women are full professors. Of division or section chiefs 19% are women, as are only 10% of department chairs. (Data: AAMC 2005–06)

The missions of AAWR are

- To provide a forum for issues unique to women in radiology, radiation oncology and related medical professions.
- To sponsor programs that promote opportunities for women radiologists, radiation oncologists, and other related specialists.
- To facilitate communication amongst members and other professionals.
- To encourage international collaboration with women radiologists around the world

Goals:

- Advance the professional and academic standing of our members.
- Identify and address gender-specific issues.
- Increase and retain active members.
- Improve visibility and communication.
- Increase women in leadership positions.
- Identify and call attention to less pay for women radiologists doing the same work as men.
- Establish networking to foster leadership among women radiologists.

Benefits:

- Networking with other women in radiology
- Increased visibility of women in radiology
- Representation on the ACR board
- Sponsoring of activities that impact women in radiology
- Mentoring programme

Programmes

We sponsor lectures and discussions on topics of interest to women including career development, gender equity, mentoring in radiology, and tailoring professional careers to help balance the needs of home and the workplace.

Activities

Our Program Committee develops refresher courses at the RSNA and ARRS annual meetings. We hold luncheon discussion sessions at major national annual meetings. Our International Committee members have travelled to Europe, Africa and Asia to international radiology meetings (ECR in Vienna; ICR in Marrakesh, Morocco; in Beijing, China) to work with women radiologists from around the world. AAWR has had a booth at the ECR for the last seven years in Vienna.



The AAWR provides a forum for issues unique to women in radiology.

Publications

We provide members with quarterly Focus newsletters, which are available online and with publications related to radiation protection. New members receive the Pocket Mentor, a manual for radiology residents and junior faculty, which contains guidance and advice on many work-related and personal matters.

Website & online member network (www.aawr.org)

We have established a website to update AAWR members on activities of the organization, to provide electronic publications, and to offer tools for community building and networking. The members' network section of the website includes the online membership directory, AAWR publications, and messages.

The AAWR Committee to promote the advancement of women nominates nationally recognized women candidates to hold office within major national and international radiological organizations. Prominent AAWR members include Theresa McCloud, immediate Past President of the RSNA; Hedvig Hricak, president-elect of the RSNA; Kay Vydareny, President of the ARRS, and others. There are at least 15 women chairs of radiology departments at present.

AAWR has addressed several gender-specific issues:

- Maternity and radiation exposure – establishment of published guidelines for radiation safety and a maternity policy for radiology residents.
- Balancing roles at home and at work through courses at national radiology meetings.
- Childcare by offering childcare services at national meetings.

AAWR has instituted several awards to recognize outstanding accomplishments of women in radiology. The most prestigious is the Marie Curie Sklodowska award.

In 1991 AAWR incorporated the AAWR Research and Education foundation to support professional development and research by women. The goal of the AAWR Research & Education Foundation is to provide Professional Leadership Awards and Research Grants to AAWR members. The Foundation sponsors one junior and one mid-career AAWR member to attend the Association of American Medical Colleges (AAMC) Professional Development Seminars.

The AAWR Research & Education Foundation is supported by donations from members and support from corporate partners.

Research Seed Grant

Purpose: To assist AAWR investigators in gaining experience in testing hypotheses and defining objectives before they apply for major grants from corporations, foundations or government agencies, by underwriting preliminary studies required prior to seeking major funding for a project.

International Programme of AAWR

AAWR has reached out to the global community of women radiologists by establishing an international member category. Each year, AAWR senior leaders have attended the ECR in order to recruit international members and promote the visibility of AAWR. The AAWR booth has been staffed for the past seven years by the two co-founders of the International Committee, Ewa Kuligowska, MD, Professor of Radiology, Boston University School of Medicine (President of AAWR 2004), and Judy Amorosa, MD, (President of AAWR 2005) Professor of Radiology, Robert Wood Johnson Medical School.

Recently AAWR has established an Annual International Award for Outstanding RSNA Presentation.

AAWR has become a significant resource for women radiologists in the United States. It has the potential to become a global resource for all women radiologists in the near future.

KUDOS *and* PLAUDITS



Kimberly Applegate, MD, MS, FACR

Dr. Kimberly Applegate was reappointed to the American College of Radiology's Council Steering Committee during the College's 86th Annual Meeting and Chapter Leadership Conference this past May.

Dr. Applegate is a professor and vice chair of quality and safety for radiology at Emory University. Dr. Applegate is the recipient of several research grants, awards, and scholarships including an American Roentgen Ray Society Scholarship. Dr. Applegate was an RSNA Editorial Fellow and created and co-edited the Statistical Concept Series for Radiology in addition to serving on multiple editorial boards—Academic Radiology, AJR Integrative Imaging, Journal of the American College of Radiology, and Radiology, Pediatric Radiology, and Radiology.

She is the Immediate Past President of the Association for University Radiologists and was the 2006 President of the Radiology Alliance for Health Services Research. She serves or has served on multiple boards of directors including the Association for University Radiologists (AUR), Association for Program Directors in Radiology, Association for Program Coordinators in Radiology, Academy for Radiology Research, American Academy of Pediatrics section on the radiology executive committee, Society for Pediatric Radiology, and the AAWR. Dr. Applegate has published over 120 peer-reviewed papers and book chapters, and presented scientific papers and lectures at medical and scientific assemblies around the world. In 2007, Dr. Applegate was elected to both the National Council for Radiation Protection and the Steering Committee of the American College of Radiology (ACR), and began work on the Steering Committee for the Image Gently Campaign to reduce radiation exposure in children.



M. Ines Boechat, MD, FACR

Dr. Ines Boechat, AAWR 2000 President, has recently received an Honorary Membership to the European Society for Pediatric Radiology, during the Society's meeting in Istanbul in early June. Twenty-two North American pediatric radiologists have received this accolade since its inception in 1964.

Additionally, Dr. Boechat has been accepted as a Fellow in the 2009-10 ELAM (Executive Leadership in Academic Medicine) Program, sponsored by Drexel University; this year she is the only radiologist in the group of 53 senior women faculty from around the country. ELAM Alumnae include several distinguished AAWR members, such as Drs. Carol Rumack (1998), Etta Pisano (2003), Jocelyn Chertoff (2004) and Ella Kazerooni (2006).

Dr. Boechat is the current Chair of the Board of Directors of the Society for Pediatric Radiology, after serving as its President in 2009. She continues to work on issues of gender equity within the University of California as Vice – Chair of the University of California Affirmative Action and Diversity (UCAAD) Committee, pending confirmation to the Chair position for next academic year.



Helen M. L. Carty, MB BCh, FRCR, FRCP

Dr. Helen Carty, an AAWR Honorary Member since 2004, received the Gold Medal from the European Society of Radiology during the 2009 ECR Congress this past March in Vienna. Dr. Carty obtained a

Bachelor in Medicine and Surgery Obstetrics from University College Dublin in 1967. She initially studied internal medicine, obtaining her membership of the Royal College of Physicians in Ireland and was subsequently elected a Fellow. Having obtained the membership, she entered training in radiology and completed her residency in radiology at Saint Thomas Hospital in London. In 1974, she obtained fellowship of the Royal College of Radiologists and soon became Consultant Radiologist at the Royal Liverpool Children's NHS Trust, Alder Hey, becoming Director of Radiological Services at Alder Hey in 1977, a position she held for 27 years. In 1996, Dr. Carty was appointed Professor of Paediatric Radiology in Liverpool University and in Alder Hey, a position she held until her retirement from clinical practice in 2004. Carty had wide interests within Paediatric Radiology and introduced interventional procedures to the Children's Hospital.

During her career, she has worked with numerous health organizations in the UK and was Adviser in Radiology to the Chief Medical Officer of Health between 1995 and 1998, Deputy Chairman of the Administration of Radioactive Substances Advisory

Committee (ARSAC), and President of the Liverpool Medical Institution in 1993-94. She served on many committees of the Royal College of Radiologists including being a member of Council, examiner, and served a four year term as Warden of the College. She has also served as External Examiner and Supervisor of M.D. and Ph.D. theses in Dublin, Pakistan, Malaysia and Singapore. She has been invited as visiting professor or lecturer on many occasions all over the world. Fully committed to sharing her knowledge with her peers, Prof. Carty has also greatly contributed to the development of European radiology. She was President of the European Congress of Radiology in 2004 and was Chairman in 2005. She spoke at every ECR conference since 1991 until her retirement. She has published 155 articles in peer-reviewed journals, 12 invited articles and 16 book chapters. She has been Editor-in-chief and author of chapters in 6 books. She regularly reviewed for medical journals including European Radiology, the British Journal of Radiology, and Pediatric Radiology.

Her achievements and leadership qualities have been duly recognized by her peers, and she has obtained Honorary Membership of the European Society of Paediatric Radiology, the Radiological Society of Hungary, the Polish Radiological Society and the Radiological Society of North America. She has also received the President's Award from the American Association for Women Radiologists in 2004. Finally, she was Elected Honorary Member of Council of the National Society for the Prevention of Cruelty to Children in recognition of services to Child Abuse. She has also been awarded honorary fellowships of The Royal College of Paediatrics and Child Health and the Faculty of Radiologists of the Royal College of Surgeons in Ireland, and a Fellow ad eundem of the Royal College of Physicians of London. She was appointed a Deputy Lieutenant of Merseyside in 2005, a civic honor.



Beverly Coleman, MD, FACR

Dr. Beverly Coleman was reappointed to the American College of Radiology's Council Steering Committee during the ACR's 86th Annual Meeting and Chapter Leadership Conference this past May.

Dr. Coleman serves as Associate Chair of Radiology, Abdominal Imaging Division, and Chief of Ultrasound and Professor of Radiology at the University of Pennsylvania Medical Center. She received her undergraduate degree from Vassar College in 1970 and her MD degree from Harvard Medical School in 1974.

She completed her residency at the Hospital of the University of Pennsylvania in 1977, and was Dr. Peter

H. Arger's first fellow in Ultrasound, Body CT and Chest Radiography. Soon after she was promoted to Professor of Radiology in 1987. Her hospital appointments include Director of the Abdominal Imaging Fellowship Program as well as numerous academic committees, including the Executive Committee, Department of Radiology.

She has served in numerous local and national radiological organizations. Some of the highlights include President of the Philadelphia Roentgen Ray Society, counselor for the American College of Radiology, and President of the Society of Radiologists in Ultrasound. Dr. Coleman has held editorial positions for the American Journal of Roentgenology, Radiologic Clinics of North America, Ultrasound Quarterly and Seminars in Roentgenology. She has been honored with fellowship in the ACR, AIUM, SRU and the College of Physicians of Philadelphia. Dr. Coleman has been an invited lecturer at nearly 200 national meetings and has participated as an active organizer in over 50 national scientific meetings, including the sponsorship of the Penn Cross Sectional Imaging courses. She has first-authored & co-authored in excess of 200 research publications, abstracts, editorials, reviews, and chapters and has published 3 books. Dr. Coleman has been a member of the AAWR since 1987.



Laurie Fajardo, MD, MBA, FACR

Dr. Laurie Fajardo, Professor and Chair of the Department of Radiology at the University of Iowa was elected to the ACR Nominating Committee during the College's 86th Annual Meeting and Chapter Leadership Conference in Washington, D.C. this

past May. She is actively involved in the development and evaluation of digital mammography and digital tomosynthesis and conducts clinical research trials in multiple areas of breast imaging, including optical imaging, CAD development, breast tomosynthesis and breast PEM.

Dr. Fajardo serves as an Associate Editor for *Academic Radiology* and is a reviewer for multiple other scientific journals. She has authored more than 175 scientific papers and book chapters and has written extensively on breast imaging, breast cancer screening with mammography, stereotactic breast biopsy and digital mammography. Dr. Fajardo is the recipient of several past and current NIH research grants and is a frequent lecturer at scientific meetings. Dr. Fajardo has been a member of the AAWR since 1998.

Kudos & Plaudits continued from page 15**Susan D. John, MD**

Dr. Susan John was elected to the ACR Nominating Committee during the College's 86th Annual Meeting and Chapter Leadership Conference this past May in Washington, D.C. Dr. John is Chair of the Department of Diagnostic and Interventional

Imaging and Professor of Diagnostic and Interventional Imaging and Pediatrics at the University of Texas-Houston Medical School. As Chief of Pediatric Imaging, she directs pediatric imaging services at Children's Memorial Hermann Hospital and Lyndon B. Johnson General Hospital in Houston, Texas. She holds leadership positions within UTHSC and Memorial Hermann Hospital. She has held the John S. Dunn Distinguished Chair in Radiology at UTHSC since 2002. Dr. John completed medical school, diagnostic radiology residency, and pediatric radiology fellowship at the University of Texas Medical Branch in Galveston, Texas. She is Board certified by the American Board of Radiology and earned a Certificate of Added Qualification in Pediatric Radiology in March 1995 with Maintenance of Certification in Pediatric Radiology in July 2004.

Dr. John is author and co-author of numerous peer-reviewed journal articles and has presented scientific abstracts at major Radiology meetings. She is co-author of the text by L.E. Swischuk, "Differential Diagnosis in Pediatric Radiology", and is also the author of several book chapters on pediatric gastrointestinal imaging. Dr. John is strongly committed to Radiology education. Her relaxed and practical approach to teaching has resulted in numerous speaking engagements at Pediatric and Emergency courses.

**Ella A. Kazerooni, MD, MS, FACR**

Dr. Ella Kazerooni was recently installed as the president of the American Roentgen Ray Society at its annual meeting in Boston, and received the Association of University Radiologists' Gold Medal Award this past May. Dr. Kazerooni,

Professor of Radiology, Associate Chair for Clinical Affairs and Director of Cardiothoracic Radiology at the University of Michigan, is currently a Trustee of the American Board of Radiology, and chairs the Committee on Chest Imaging, American College of Radiology Commission on Body Imaging. She has played many roles in organized radiology, including president of the Society of Thoracic Radiology, the Association of University Radiologist and the Radiology Alliance for Health Services Research in

Radiology. She is an elected member of the Society of Computed Body Tomography and Magnetic Resonance and Fleischner Society.

With a Master's degree in Clinical Research Design & Statistical Analysis, her research focuses on the development and evaluation of advanced imaging technologies as applied to diseases of the cardiothoracic organs. This includes evaluating the technologies at several levels, from safety to validity and reliability, reader agreement and impact on medical decision making. Specific areas of research include lung cancer screening, and the diagnosis and management of coronary artery disease, pulmonary embolism, thoracic trauma, interstitial and obstructive lung diseases. She is the institutional PI for the NIH/NCI National Lung Screening Trial, and a co-investigator on numerous NIH funded grants, including the COPD gene study, PLOPED III, the Lung Imaging Database Consortium, Reference Image Database to Evaluate Response to therapy in lung cancer and the Imaging Database Resources Initiative.

Dr. Kazerooni enjoys working with and helping junior faculty, fellows and residents develop their academic careers, is active in several career development programs, and has received both the Teacher of the Year Award and the Mentor of the Year Award from the radiology residents at the University of Michigan. She is a frequently invited guest speaker at academic institutions and national/international meetings.

**Ritsuko Komaki, MD, FACR, FASTRO**

AAWR past president, Dr. Ritsuko Komaki will be the first recipient of the Japanese Society for Therapeutic Radiology and Oncology Gold Medal Award. This honor will be bestowed upon Dr. Komaki during the 22nd

Annual Meeting of JASTRO this fall in Kyoto. Additionally, she is an emeritus member and devoted supporter of the Japanese Association for Women Radiation Oncologist (JAWRO), which was officially formed on April 18th of this year. The JAWRO is chaired by Professor Yoko Harima of Kansai Medical University, and its mission is to assist women in radiation oncology to achieve personal and professional fulfillment through networking and mentoring other women in radiation oncology. The JAWRO Secretary of Public Relations Professor Kumiko Karasawa of Juntendo University stated, "Dr. Komaki is the best mentor of Japanese women radiation oncologists." Dr. Komaki will participate in a JAWRO meeting this September. She is the Professor of Radiation Oncology and Gloria Lupton Tennison Endowed Professor in Lung Cancer Research at the UT MD

Anderson Cancer Center. Dr. Komaki would like to personally congratulate all of the members of the AAWR who stimulated and inspired Japanese Women to organize the JAWRO.



Theresa C. McLoud, MD

During the 2009 ECR Congress this past March, Dr. Theresa McLoud was awarded honorary membership within the European Society of Radiology for her accomplishments and achievements as a pioneer in thoracic radiology, who has led the way for innovations in improving radiologic education worldwide.

A Boston native, Dr. McLoud received her BS degree from Boston College in 1964. After obtaining her MD degree from the McGill University Faculty of Medicine in Montreal, Quebec, Canada, she completed a thoracic imaging fellowship at the Yale University School of Medicine in New Haven, Connecticut, and soon became an assistant professor of diagnostic radiology at Yale. In 1976, she returned to Boston and joined Harvard Medical School where she has been professor of radiology since 1993. Dr. McLoud is the first woman in the history at the Massachusetts General Hospital in Boston to hold the rank of professor at Harvard. She also serves as associate radiologist-in-chief and director of education for the department of Radiology at the MGH. In 2004, she was awarded the Gold Medal of the American Roentgen Ray Society (ARRS), and in 2003 she received the Marie Curie Award, the highest honor bestowed by the American Association for Women Radiologists. She is past president of the Fleischner Society, the Society of Thoracic Radiology, and ARRS. She is past President of RSNA.



Etta D. Pisano, MD, FACR

This past March, the University of North Carolina presented Dr. Etta Pisano with the University Award for the Advancement of Women. Dr. Pisano was one of three recipients, and as stated on the UNC Web site, the awards honor individuals who

have mentored or supported women on campus, elevated the status of women or improved campus policies for them, promoted women's recruitment and retention, or promoted professional development for women.

Dr. Etta Pisano received her MD from Duke University and completed her radiology residency at Beth Israel Hospital of Harvard Medical School. Following a year as Chief of Breast Imaging and Instructor in Radiology at Beth Israel, she relocated to University of North

Carolina at Chapel Hill where she served for 16 years as Chief of Breast Imaging. She is currently Kenan Professor of Radiology and Biomedical Engineering, Director of the NC Translational and Clinical Sciences Institute, Director of the UNC Biomedical Research Imaging Center and Vice Dean for Academic Affairs for the UNC School of Medicine.

She is the Immediate Past President of the AAWR and a Past President of the Association of University Radiologists. She served as the Principal Investigator of the Digital Mammographic Imaging Screening Trial (DMIST) and recently published the results of that study in the *New England Journal of Medicine*. Dr. Pisano has served on several AAWR committees, including the Committee to Promote the Advancement of Women. Dr. Pisano is married to Jan Kylstra, MD, a retinovitreal surgeon in private practice. She and her husband have four children.



Carol M. Rumack, MD, FACR

AAWR's founding president; Dr. Carol M. Rumack was elected president of the American College of Radiology during the College's 86th Annual Meeting and Chapter Leadership Conference in Washington, D.C. this past May. In

addition to this prestigious election, Dr. Rumack received the 2009 American Roentgen Ray Society's Gold Medal Award for Distinguished Service to Radiology in April of this year during the ARRS 109th Annual Meeting in Boston.

Dr. Rumack is a professor of radiology and pediatrics with tenure at the University of Colorado Denver School of Medicine. She received her undergraduate and medical degree from the University of Wisconsin in Madison, WI. After completing her pediatric internship at the University of Maryland, Dr. Rumack spent a year at the Johns Hopkins department of pediatric radiology where she decided to switch from pediatrics to pediatric radiology; she completed her radiology residency and fellowship at the University of Colorado.

Dr. Rumack is a pioneer in neonatal brain imaging with ultrasound and she continues to practice neonatal imaging in the high risk NICU. She was awarded fellowship distinction in the American Institute for Ultrasound in Medicine, Society for Radiologists in Ultrasound and the American College of Radiology for her outstanding contributions to radiology and ultrasound. In 2007, she received the Pioneer Award from the Society for Pediatric Radiology, and in 2006, was the recipient of the highest honor of the AAWR, the Marie Sklodowska-Curie Award.

Kudos & Plaudits continued from page 17



Cynthia S. Sherry, MD, FACR

Dr. Cynthia Sherry was reappointed to the American College of Radiology's Council Steering Committee during the ACR's 86th Annual Meeting and Chapter Leadership Conference this past May. Dr. Sherry is Chairman and Medical

Director of the Department of Radiology at Texas Health Presbyterian Hospital of Dallas. Texas Health Presbyterian Dallas is a 700-bed tertiary care teaching hospital and is the flagship hospital of Texas Health Resources, a 13-hospital system serving north Texas. Dr. Sherry is also a medical director and a managing partner for Southwest Diagnostic Imaging Center. Together, the two facilities perform approximately 400,000 imaging exams per year and offer a full complement of state-of-the-art diagnostic imaging modalities, including intra-operative MRI Brain Suite and full-service dedicated Women's Imaging. Dr. Sherry is immediate past president of the physician group, Southwest Imaging and Interventional Specialists, PA.

Dr. Sherry is the immediate past president of the American College of Physician Executives, the acclaimed organization dedicated to physician education and advancement in medical management and leadership roles. She has been awarded Fellowship in the American College of Physician Executives and the American College of Radiology. She has served Presbyterian Hospital and Texas Health Resources in several capacities, including President of the Medical Staff, founding Chair of the system-wide Physician Leadership Council, Texas Health Presbyterian Dallas Board of Governors and Texas Health Resources Board of Trustees. Dr. Sherry was also a board member and past Chair of Deuteronomy, a THR-sponsored multi-specialty physician group providing services throughout the north Texas area.

Dr. Sherry received her Medical Degree from the University of Texas Southwestern Medical School and completed Radiology Residency and Magnetic Resonance Fellowship at Baylor University Medical Center. She earned a Masters Degree in Medical Management at Carnegie Mellon University.

Marie Sklodowska-Curie Tops the Charts

Most inspirational woman scientist revealed: Nuclear physicist and chemist Marie Curie (1867-1934) topped the poll which was created to celebrate 10 years of the L'Oréal-UNESCO For Women in Science program, with around a quarter (25.1%) of the vote.

[CLICK HERE TO READ MORE](#)



Kathleen A. Ward, MD, FACR

Dr. Kathleen Ward, past president of the AAWR, has been elected President of the Illinois Radiological Society, the state chapter of the American College of Radiology. Dr. Ward trained in diagnostic radiology and completed an imaging fellowship at Loyola University Medical Center in Maywood, Illinois, and currently serves as Medical Director of Women's Health Imaging at Loyola University Health Systems. Past president of the Chicago Radiological Society, she was the founding secretary of the Resident Physician Section of the Chicago Radiological Society, the first such radiology resident physician section in the nation and the model for the Resident and Fellow Section of the American College of Radiology, initially introduced by the Illinois Chapter and now a vital part of the American College of Radiology. Dr. Ward has been a member of the AAWR since 1987.

Lessons from an executive coach: Case 1 – Negotiating an entry level job

As we learned from the vignette in the last issue of the *Focus*, a newly-minted radiologist, Dr. White, was offered a job on the clinical track. After accepting the terms, she learns that a male radiologist was brought in last year at a higher salary and with fewer clinical obligations. She has to decide whether to return to her boss and ask for more.

- 1) Before making any decision, Dr. White should know all of the facts. In the case of an academic job, did her male colleague bring special experience or grant funding to the department? If this is a private practice, did he bring a strong patient referral base? If her male colleague does have a better skill set, then he should be paid accordingly. Returning for negotiation would be inappropriate.
- 2) If her male colleague has a similar skill set to her own, then she must seriously think about remaining in the job. Her boss will likely bristle at any mention of discrimination and might make her duties unbearable, although he will have been reminded that his actions did not go unnoticed. If she must stay in this situation, then the most reasonable course may be to do the best possible job during her first year, impress her colleagues (and her boss) and then renegotiate her terms.

The AAWR Celebrates the 2009 WOMEN'S CLASS OF ACR FELLOWS

The 2009 new ACR female fellows were honored by the AAWR at the Association's New Fellows Breakfast held on Monday, May 2nd during the 86th Annual Meeting and Chapter Leadership Conference. There were about 45 women leaders in attendance to pay tribute to the new fellows and listen to the guest speaker, first AAWR president and incoming president of the ACR, Dr. Carol M. Rumack share the history of the AAWR, its role for women, and its integration into the RSNA and the ACR. The breakfast concluded with each new fellow in attendance receiving a certificate of congratulations and spending time mingling with one another. The breakfast was hosted by Drs. Kimberly Applegate, Denise Collins and Ellen Wolf. The Association thanks them for their dedication and service.

The AAWR and the ACR Activities Committee, chaired by AAWR past president and ACR Councilor, Dr. Kimberly Applegate promotes women in both the ACR and in organized radiology. They continue to submit names of potential women to run for office and for committees within the ACR. There are more women than ever before serving on the ACR Board of Chancellors this year, which includes: Drs. Carol Rumack, Deborah Levine, Anne Roberts, Cassandra Foens, Carolyn Meltzer and Carol Lee. With Dr. Rumack as the incoming President, Dr. Applegate and the Committee hope to have more opportunities to promote women. Congratulations to all!



Libby F. Brateman, PhD, FACR

Libby F. Brateman, PhD, FACR, is an associate professor of radiology at the University of Florida College of Medicine, where she is the mammography physicist, and affiliate associate professor of nuclear and radiological engineering at the UF

College of Engineering in Gainesville, FL, where she is involved with the medical physics graduate program. After receiving her BS in physics and chemistry from Birmingham-Southern College and her MS in Physics and Chemistry from Auburn U, Dr. Brateman began her career in medical physics at the (former) Polyclinic Hospital in Harrisburg, PA, under the direction of Ted Tristàn, MD, and the mentorship of Jack Krohmer, PhD. She is ABR-certified in Diagnostic Radiological Physics. She then served as a diagnostic physicist in the U. S. Public Health Service in the FDA research laboratories and in the NIH Clinical Center. After receiving her PhD from the University of Florida, she received postdoctoral training in MRI/MRS in Dallas under the direction of

Ray Nunnally, PhD, at Southwestern Medical School/Parkland Hospital. She is a fellow of the American Association of Physicists in Medicine and, in addition to the AAPM, is a member of the Society of Breast Imaging and the Health Physics Society. She is currently a member of the AAPM Ethics Committee and the Review of Radiation Physics Syllabi for Residents Task Group of the Medical Physics Education of Physicians Committee. She is a physics reviewer in the ACR Mammography Accreditation Program.

Dr. Brateman is the author or co-author of 36 original papers, 2 book chapters and 2 NCRP Reports. Her professional interests include "right-sizing" regulations for medical use of ionizing radiation. Her research interests include diagnostic radiation dosimetry for patients and personnel and diagnostic imaging of pediatric patients. A breast cancer survivor, she is interested in beginning research activities to quantify adhesed soft tissues.



Dorothy Bulas, MD, FACR

Dr. Bulas is Professor of Pediatrics and Radiology at George Washington University Medical Center. She is Program Director for the Pediatric Radiology Fellowship Program for the Department of Diagnostic Imaging and Radiology at the

Children's National Medical Center. Dr. Bulas attended a six year combined BA-MD program at Lehigh University and the Medical College of Pennsylvania. She completed a pediatric residency at the University of Maryland and New York Hospital and a diagnostic radiology residency at Albert Einstein Medical College in New York. She then completed a two year fellowship in pediatric radiology at CNMC. She received a Graduate certificate in Leadership Development from the George Washington University Graduate School of Education and Human Development.

She is a fellow of the Society of Radiologists in Ultrasound and the American Institute of Ultrasound in Medicine. She is current president elect of the Society for Pediatric Radiology and has served on its board and as secretary. She is a member of the Radiological Society of North America, the American Roentgen Ray Society, and the AAWR, and is a Board member of the Academy of Radiology Research. She is currently a member of the ACR Committee for Pediatric Radiology Practice Guidelines Committee and the American Board of Radiology Diagnostic Radiology Written and Oral Examination Task Force for pediatric radiology. She is a

member of the task force for Maintenance of Certification in Pediatrics for the American Board of Radiology and is on the steering committee for the Image Gently campaign.

Dr. Bulas's scholarly interests include fetal imaging, transcranial Doppler, trauma imaging, radiation safety, and pediatric sonography. Dr. Bulas is the recipient of the SPR Singleton-Taybi Award for outstanding education in pediatric radiology and honorary membership to AOA by Drexel University. She has authored over 77 peer reviewed publications, 35 invited chapters and articles. She is perinatal section editor for the Journal of Pediatric Radiology, section editor for Applied Radiology and was section editor for Fetal and Neonatal Imaging in Caffey's Pediatric Diagnostic Imaging. Dr. Bulas is regularly invited to deliver national and international lectures.



Bonna Rogers-Neufeld, MD, FACR

Dr. Bonna Rogers-Neufeld was born in Los Angeles, California and has always been a California native, moving to Fresno in 1986. She is a graduate of Loma Linda University Medical School and was the first female class president of that medical school. She took a dedicated diagnostic radiology residency and was board certified in 1985. Women's imaging became her primary focus and for the last twenty years she has worked almost exclusively in breast imaging and intervention. She has read well over a million mammogram images and has diagnosed thousands of Central Valley women with breast cancer, mostly in early stages. She was the first to offer core biopsies of the breast and was the West Coast trainer for stereotactic biopsies at their inception. She has served on numerous committees regarding breast cancer and breast imaging issues including committees which defined protocols for high risk breast imaging, sentinel node biopsy, and multidisciplinary breast conferences.

She has been married for 32 years to Don Neufeld, a transactional attorney and they have two grown sons, Eric, a junior at Sacramento State and Ethan, a medical student at Loma Linda University.

Dr. Rogers-Neufeld is an avid sports fan and particularly the game of baseball. She is a gardener of vegetables and flowers. Her dahlias and roses have won awards at the Fresno Fair. She also bakes and has developed recipes one of which won an award. The Neufelds are Fresno area community supporters and participate in numerous local activities and charities. They are active members of the Clovis Hills Community Church. Dr. Rogers-Neufeld was selected as Fresno's Woman of the Year in 1994. She is devoted to service to her family, community, and to her patients. Her mantra is "Solve the problem."



Melinda Staiger, MD, FACR

Dr. Staiger earned her medical degree and completed her residency in Diagnostic Radiology at New York University Medical Center. She brings 26 years of experience to her most recent position as Director of Breast Imaging of the Jacqueline M. Wilentz

Comprehensive Breast Center at Monmouth Medical Center. Prior to this, she developed the first comprehensive breast center on Long Island, and served as an Associate Director of Breast Imaging at the University of Pittsburgh Medical Center/Magee-Womens Hospital Breast Centers, Director of Breast Imaging at the Pittsburgh Cancer Institute Comprehensive Breast Cancer Center and as the first Director of Mammography for the New York University Medical Center. As a member of the International Digital Mammography Development Group, she has participated in national clinical trials of this new technology since 1994, serving as a principal investigator in the ACIN DMIST trial at Monmouth Medical Center.

Dr. Staiger has made significant contributions to the community with her involvement as an American Cancer Society spokesperson for breast cancer issues in Pittsburgh, Long Island and New Jersey since 1988. She served as a member of the Board of Advisors in Long Island and for the past five years as a member of the Board of Advisors of the Jersey Shore Region. From 2005-2007 she served as Chief Medical Officer for the Jersey Shore Region and was its 2008 Honoree. Since 2005 she has served as a member of the American Cancer Society's Strikeforce on Breast Cancer, chairing the mammography workforce committee and on the prestigious New Jersey Governor's Taskforce on Breast Cancer. At Monmouth Medical Center, Dr. Staiger is the Cancer Liaison Physician and a recipient of the Commission on Cancer's 2007 Outstanding Cancer Liaison Physician Award. She is a member of the Monmouth Medical Center's Cancer Committee and participates regularly in the Speakers Bureau for community and professional outreach. Dr. Staiger is also a member of the American College of Radiology's (ACR) committee on Breast Ultrasound Accreditation, and has served as a reviewer for this program for several years.

Other AAWR members who were inducted with the 2009 ACR Fellow Class this past May are as follows: Elizabeth Morris, MD, FACR of Memorial Sloan-Kettering Cancer Center; Maria Vlachaki, MD, PhD, MBA, FACR of the Barbara Ann Karmanos Cancer Institute at Wayne State University; and Elizabeth Ying-Kou Yung, MD, FACR of Winthrop Radiology Associates.



PAST PRESIDENT REFLECTIONS

By Gretchen AW Gooding, MD

Women physicians, like other women professionals, tend to live in parallel universes. The professional one coexists with the private one, the latter usually as significant other, wife, mother, and /or caregiver to aged parents or a disabled family member.

Despite misguided bias that medical educations were misspent for women who would leave early to care for their families represents a drain on resources, actually women are excellent managers who can be very productive though not necessarily following a conventional path.

Consider that "21% of doctors in their late 30s and early 40s work less than 35 hours a week." A recent Harvard study by labor economists Claudia Goldin and Lawrence Katz noted in an article in the New York Times on May 27, 2009 by David Leonhardt that

1. **medicine** compared to business and law offered **more flexibility** in career options and
2. when they took time off, physicians took **less of a financial hit** than those other groups including PhD's, and
3. physicians had **greater career opportunities** afterward.

Women can make significant contributions despite a convoluted path. My own story begins in 1957, when I enrolled in medical school at Ohio State University; there were 5 women in my class of 150. After internship in my native Ohio, I followed my new husband, Charles, to Boston where he began a radiology residency at Peter Bent Brigham Hospital and I became a Research Fellow, in Virology, on an NIH training grant. A year later, we had our first child while I worked part time. My husband began a Harvard fellowship in Europe for a year at the Karolinska Institute in Stockholm and the Hospital for Sick Children, in London with me, an infant boy and a two year old son in tow. Thereafter with the Vietnam war in progress, my husband was drafted to work at Letterman Army Hospital in San Francisco where I worked part time in the ambulatory clinic until I had a third child, a daughter. Then, having broken my leg skiing, I hired a young housekeeper and discovered that I could probably go back to fulltime work with my live in nanny/housekeeper at the helm at home.

Under the aegis of Alexander R. Margulis, Chairman of Radiology at UCSF, I began my radiology residency at UCSF on 7/1/72 and three years later embarked on my full time career as an ultrasonologist at the Dept of Veteran Affairs Medical Center in San Francisco with an appointment at UCSF as a clinical instructor. I was 40 years old on that second day as staff radiologist with three beautiful children, Gunnar, age 12, Justin, age 10, and Britta, age 5, and a husband who was Chief of Pediatric Radiology at UCSF, soon to become Executive Vice Chairman.

How it was:

Medical meetings in the 1960's and 1970's were smoke filled rooms of mostly men.

Ultrasound was just getting started as a clinical tool. My colleagues and I took ultrasound images using an articulated arm scanner which generated an outline of organs, and a mode for brain shifts. We, had no Doppler or color. Polaroids were taken and hung up to dry on a clothes lines after rubbing them with an agent to keep them stable. At the same time, we did a lot of barium upper and lower gastrointestinal studies and were concerned about the radiation. We had some basic nuclear medicine, but CT and MRI had not been invented yet.

The Golden Age of Radiology erupted with the advent of CT, MRI, and color Doppler, then PET, spreading like a mushroom cloud with iterations of the technologies now expanding into combined imaging (CT-PET), fusion imaging and molecular imaging. As physicians became less dependent upon physical examination because of its basic inadequacy they have turned to imaging to clarify the clinical presentations. Treatment options with lasers, heat, cold, focused ultrasound and a host of other options have expanded as imaging has revolutionized the patient interaction; stem cell treatments are on the horizon.

How it is:

Today, in 2009, access to Ultrasound is worldwide. Machines allow exquisite detail with color Doppler velocity profiles, volume imaging, contrast imaging for cardiac, and pocket sized imagers. Radiology is at the peak of the pyramid of ultrasound care providing accurate and informative diagnoses, but sonographic train-

ing is fragmented; many do not get the subspecialized vascular, or musculoskeletal, pediatric or breast training that they may need in practice. Ultrasound training demands more than a cursory three months of resident training and three months of fellowship in a combined program to provide for the academic leaders of the future. Look at the advertisements for radiologists. For ultrasound, there is no burgeoning pool of candidates ready to take up the academic pursuit of sonographic diagnostics as a career. Busy radiologists often do not have the time that is needed for comprehensive ultrasound evaluations; they tend to migrate their focus to CT and MRI and depend on their sonographers to work out the details of complicated cases.

Most of Radiology does not offer fellowships in ultrasound in a single program that encompass women's imaging, breast and pelvis, vascular imaging, musculoskeletal imaging, interventional ultrasound, pediatrics, aspiration localization and biopsy education as well as focused ultrasound treatments. Most departments have no sonographic research arms. Dr. Barry Goldberg's Laboratory in Philadelphia is a prototypic example of what could be done, but the more likely scenario is further sub specialization into specific subsets of sonography by various practitioners.

Ultrasound has a brilliant future, but will Radiology lead the way?

What about the role of women in Radiology?

As for women in medicine, the AAWR was founded to support and highlight the achievements of women in the radiological sciences and has been eminently successful at that goal. Women in radiology continue to make their mark as they move up the ladder of influence and respect. The gates are opening wide for women at all levels of professional life.

How have things changed for women?

My years of clinical work, teaching and public service flew by. As the first woman Professor in Diagnostic Radiology at UCSF (1986), followed swiftly by Hedvig Hricak and Faye Laing, and the first woman Chief of Radiology at the Dept of Veteran Affairs Hospital in San Francisco, (since followed by another talented woman, Judy Yee of virtual colonoscopy fame), it is obvious to me that opportunities for women in medicine have expanded exponentially in both the private and the public sector. Remarkably, Carol Rumack, our own founding AAWR President, is currently President of the American College of Radiology. This year of 2009, The University of California San Francisco (UCSF) has just announced the new Chancellor of the campus, the first woman, Dr. Susan Desmond-Hellmann, from Genentech, which appointment speaks volumes of how far women have come in the last twenty five years.

Now my professional story is coming to a close as I, a Professor in Residence at UCSF, and my husband, Charles A Gooding, MD, also, Professor of Radiology, UCSF, retire from our work at UCSF and the VA/SF, work that has encompassed in combination, 77.5 years of service; he in Pediatric Radiology, I, in Ultrasound. We have been part of a great radiologic adventure which has taken us to nearly every corner of the world in the company of dedicated colleagues, and introduced us to a wealth of idealistic students, residents, and fellows who are making their own mark in the world. We have had a gratifying career primarily of service in the care of veterans and young children, two key groups of people, those who have protected our country from harm and those who are our collective future.

Not to be forgotten on this journey, many of us women physicians owe a deep debt of gratitude to those helpers, nannies, housekeepers, who have work tirelessly for us over the years so that we could work outside the home and yet maintain a lively and healthy family life.

As for our children, the light of our lives, they have thrived as independent adults. Gunnar is a lawyer/business executive in Newport Beach, California, Justin, an interventional radiologist in the San Diego area, and Britta, a NightHawk radiologist in San Francisco. Stephanie Gooding, our beloved daughter in law, watches over our three grandchildren, Nicholas, Noelle and Shane.

We are blessed. The future of Radiology is bright. We pass the torch.

WE NEED YOUR E-MAIL ADDRESS

To contain costs, the AAWR would like to send announcements such as this and other news by e-mail. Please provide us with your e-mail address via the AAWR Web site at www.aawr.org. Click the "Contact Us" tab, enter your name and e-mail address in the space provided, and submit or you can contact the AAWR Office at admin@aawr.org.

Thank you.

THE AAWR RESEARCH AND EDUCATION FOUNDATION AWARDS UPDATE



Alison L. Chetlen, DO

Dr. Alison Chetlen is a fourth year radiology resident at Penn State Milton S. Hershey Medical Center in Hershey, PA. She will be pursuing a Breast Imaging Fellowship at University of Virginia following completion of her residency in August of

2009. She is the recipient of the 2009 AAWR R&E Foundation Member-in-Training Award for her Outstanding ARRS Presentation titled, "Percutaneously Diagnosed Benign Papillary Lesions of the Breast: Pathological Upgrade Frequency at Subsequent Surgical Excision." Dr. Chetlen was a previous recipient of the 2006 Society of Breast Imaging Scholarship. She has published case reports in American Journal of Neuroradiology and Applied Radiology. In her free time, she enjoys competing in marathons, traveling, and spending time with her family. Dr. Chetlen has been a member of the AAWR since 2007.



Martha-Gracia Knuttinen, MD, PhD

Dr. Martha-Gracia Knuttinen is the recipient of the 2009 AAWR R&E Foundation AAMC Professional Development Seminar for Early-Career Faculty Award. Dr. Knuttinen graduated from Northwestern

University Medical School and Medical Scientist Training Program in 2001 with an MD, PhD (PhD in Neuroscience). She finished her radiology residency and completed a Vascular and Interventional Radiology fellowship at the University of Chicago. Dr. Knuttinen is currently an Assistant Professor in Interventional Radiology at the University of Illinois in Chicago.

She has written numerous papers which have been published in journals ranging from the Journal of Vascular and Interventional Radiology to Behavioral Neuroscience. Recently, Dr. Knuttinen was a guest editor for an issue of Seminars in Interventional Radiology, which focused on women's health issues as it relates to interventional radiology. As guest editor for this issue, she sought out all female authors to recognize them in their achievement. Martha-Gracia has received scientific research awards including Outstanding Scientific Presentation (awarded to the top 10 presentations) at the annual Society of Interventional Radiology Meeting in 2008, and Certificate of Merits for Scientific presentations made at the European Congress of Radiology, 2004 and 2006. She has become instrumental in education by being selected as Assistant Residency Program Director at UIC, and recently was one of the recipients of the Clinical Educational Development award grants from the American Roentgen Ray Society in 2008. In her spare time, she is an avid runner, having recently completed three marathons in this past year including the Boston Marathon, Chicago Marathon, and the Phoenix marathon. She also enjoys sailing, opera, and overseas travel. Dr. Knuttinen has been a member of the AAWR since 2004.

Visit the AAWR Bookstore and Support the AAWR!

Take a moment to visit the AAWR Bookstore at our Web site www.aawr.org! The book selection is based on the Radiology Bibliography from the AAWR Survival Guide for Women Radiologists "The AAWR Pocket Mentor" and also includes authors who are AAWR members. Review the listing. If you find a title that is of interest to you, make the selection and you will be directed to the Amazon.com website to complete the purchase. For every book sold through a direct referral from the AAWR Web site, our Association can earn up to 15% in referral fees with no extra cost to you.

Thank you for helping AAWR to increase its revenues in order to better serve our members.

SAVE-THE-DATES

Upcoming AAWR Programs

Mark your calendar and plan to join us!

AAWR at ASTRO

AAWR/ASTRO Breakfast

Date: Sunday, November 1st

Time: 7:00 a.m. – 8:15 a.m.

Speaker: Dr. Carolyn Compton of the NIH

Director in the Office of Biorepositories and Biospecimen Research and the Acting Director in the Office of Technology and Industrial Relations

Please join members of AAWR and ASTRO for education, food and networking.

For more information and registration, visit the ASTRO Web site at www.astro.org/Meetings/AnnualMeetings.

AAWR at RSNA

Annual Members' Business Meeting Luncheon

Date: Monday, November 30th

Time: Noon – 1:00 p.m.

Topic: Election of Officers and Award Presentations

Residents' Luncheon

Date: Tuesday, December 1st

Time: Noon – 1:00 p.m.

Topic: *Generations at Work*

Speaker: Dr. Marilyn Goske

Introduction: Dr. Zhongxing Liao

President's Luncheon

Date: Wednesday, December 2nd

Time: Noon – 1:00 p.m.

Topic: *Women in Academic Medicine Organizations – Passé' or au courant?*

Speaker: Dr. Elizabeth Travis

Introduction: Dr. Ritsuko Komaki

AAWR Refresher Course

Date: Thursday, December 3rd

Time: 8:30 a.m. – 10:00 a.m.

Topic: *Image and Role of Radiation in Gynecologic Malignancies*

Speakers: Drs. Katarzyna Macura, Julia Fielding and Patricia Eifel

Moderator: Dr. Zhongxing Liao

*International Luncheon

Date: Thursday, December 3rd

Time: Noon – 1:00 p.m.

Topic: *Changing Demographics in Europe: Sneak Preview of the Future*

Speaker: Majda M. Thurnher, MD

AAWR Booth

Date: Sunday, November 30th – Thursday, December 3rd

Location: Hall A South Building – Booth #2515

Exhibit Hours: Sunday-Wednesday: 10:00 a.m. – 5:00 p.m.

Thursday: 10:00 a.m. – 2:00 p.m.

As you can imagine, the AAWR Program Planning Committee is involved in a lot of onsite and behind the scenes planning for these events. How can you help? Sign-up to volunteer to be a hostess for one of the fall AAWR activities listed above. As a hostess, you will greet the attendees, handle onsite registrations, and distribute informational material about the Association. If you would like to volunteer to assist with a luncheon or the booth, please contact Angela Davis at adavis@meetingmanagers.com.

*In addition to the Residents' Luncheon being complimentary, all International Luncheon attendees who reside outside of the US or Canada will receive complimentary entrance. This offer is made possible due to a generous donation made by an AAWR member. The AAWR Web site will be updated with registration and pricing information for the AAWR luncheons as the meeting draws near, so please continue to visit www.aawr.org.

NEGOTIATING – CASE STUDY #2

MID-CAREER: BECOMING A DIVISION HEAD OR SOMETHING EQUIVALENT

Dr. Melinda White is a tenured associate professor in radiology and her name has just begun to be circulated as a potential division head candidate at a few well respected programs. A friend and colleague of hers in gastroenterology, of similar age and academic progression, was recently offered a division head position at an outstanding institution. She turned it down when her current Division Head made a retention offer which involved a raise, a travel allowance, a promise to help her achieve center designation, and to begin steps for consideration of an early promotion.

This is not the first retention offer made recently. In fact, the Chair of the department was recently retained with a significant financial package to rebuild the Department, when he was a finalist for a Dean's position. Dr. White hates the idea of interviewing in order to get an offer but believes, as do many others, that she has to get an outside offer to improve her present position. Melinda's husband is an obstetrician who has a practice in town which has taken years to build. He is now very successful. Should he leave, his malpractice tail alone would be in excess of \$150,000.

What would you advise Dr. Melinda White to do?

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Articles for consideration for publication in the *Focus* can
be submitted to the address above.

Focus is published at least three times a year by the American Association for Women
Radiologists (AAWR) for the benefit of its membership

Chief Editor

Julia Fielding, MD

Co-Editor

Marcia Javitt, MD

Associate Editors

Meghan Blake, MD

Nina Mayr, MD

Publication Coordinator

Angela Davis

We invite the membership to share its ideas and expertise with all of us by submitting articles
for future publication in the *Focus*.

Editorial Deadlines

September 1, 2009