

Meet Your New SMRT President



"Our focus will be to find creative and relevant ways to bring MR education to the working technologists."

Vera Kimbrell, B.S., R.T. (R)(MR)

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Signals: Vera, when did you first become involved with MRI?

I started working on the first MR scanner that was installed at the Baptist Hospital in Little Rock, Arkansas, USA. It was January of 1985; about the same time that MRI was approved for clinical use in the United States. The administration chose me for the new position because I had CT experience, and they thought that would help me to be a MR technologist. Because of the vast difference in technology, my CT background did not help me!

Signals: What attracted you to participate in education and training?

MR was such a new field in those early days that very little formal training was available. I found that I really enjoyed learning this new technology and teaching what I had learned to technologists newer to the field. When I moved to Massachusetts in 1993 I was able to take a position with Shields MR that allowed me to pursue MR training full time.

Signals: You have been active in the SMRT for many years. Can you share how your professional background in education allowed you to contribute to the mission of the SMRT?

The SMRT has a mission and vision of providing MR education to technolo-

gist/radiographers throughout the world. It's a nice fit for me to continue and expand on my passion for education. I will endeavor to improve and increase our online educational offerings and in doing so reach more technologists. The quality of our programs, which has made the SMRT the premier provider of MR education world-wide, is also important and will be maintained.

Signals: What are some of your ideas to support the SMRT in the expanding globalization of the organization?

I think our future lies in our ability to have a larger online presence both in our website, and electronic forms of communication like Facebook, Twitter, and social media that may be developed. Most technologists have access to an internet-connected computer or device, and increasingly education is going away from "paper" and towards electronic media. Relevant information and education delivered electronically will increase our membership in all areas of the world.

Signals: Do you have one specific goal you would really like to accomplish this year as President?

Of course I'd like to see our membership grow! However my number one goal is to improve and increase the

educational offerings along with more web based information. The more information and education we can provide to technologists and radiographers worldwide, the more valuable the SMRT becomes as an organization.

Signals: Is there anything else you would like the SMRT membership to consider?

The membership can assist the SMRT in finding new ways to communicate and educate ourselves about MR Safety issues and new technology. I'd like for us to work on maintaining and increasing the SMRT presence in the world. The SMRT is known as the "go to" organization to obtain the latest in MR news and education to those who have joined in membership. There are thousands of MR technologists and radiographers worldwide who are not aware of the SMRT or that they can "go to" this leading organization for information relevant to their daily work.

The outcome of the FDA meeting, in the USA, generated new avenues to reach both MR vendors and implant manufacturers. We will take advantage of these opportunities to establish ourselves as a voice and a presence in the MR community.

Signals: Any closing comments in regards to the successful 2012 Annual Meeting?

The SMRT set an all-time attendance record this year during our annual meeting. We "sold-out" our two-day didactic lecture session with over 500 registered attendees and drew many attendees to the Monday ISMRM-SMRT Joint Forum. Along with the educational sessions we spent time touring the country and taking in the city

of Melbourne. What a great week and many thanks to our hosts from Australia. *Greg Brown* started a SMRT12 Facebook page and those that joined the site were treated to daily updates on sessions and events. Social Media has a strong influence in our lives. Look for the SMRT to have a more active presence and more frequent postings. We'd love to see our members join and follow our activities.

The SMRT has many chapters but the Australia-New Zealand (ANZ) is particularly strong. This connection allowed us to reach new milestones in attendance and content during this year's Annual Meeting. Education is our mission and toward that end new initiatives were put into place during the Policy Board meeting. Members can look forward to more online education and a push for electronic content development on-going. Many Regional and Chapter meetings are scheduled for the upcoming year. Please consider these learning

opportunities in your upcoming educational planning sessions. I believe you will find some of the best MR education around at a seminar near you!

There are also new developments in MR Safety as it pertains to implanted devices. The SMRT is taking an active role and participating in discussions concerning the design and implementation of this effort. Our hope is to make scanning of implants safe for patients and less confusing for technologists. Former Policy Board member and out-going Global Relations Chair *Titti Owmán* is heading up the ISMRM Safety Workshop in Lund, Sweden 5-8 September 2012. This meeting should be very informative and helpful toward understanding safety concerns of the MR community.

Membership is strong and growing as more technologists and radiographers learn about the benefits of joining the SMRT. Please visit our website, Facebook page or talk to a SMRT member to learn more about us. The next Annual Meeting is Salt Lake City, Utah, USA (20-21 April 2013). Planning is already underway and we hope you make plans to join us!

I look forward to serving the membership as President this year. There is much to do and many able technologists in our leadership to help get it done! Our focus will be to find creative and relevant ways to bring MR education to the working technologists. The SMRT is committed to fulfilling our mission and vision of providing the best in MR content and shaping technologists for the future. 



SECTION FOR MAGNETIC RESONANCE TECHNOLOGISTS

"The SMRT invites you to join us on Facebook, Twitter and RSS for the most up to date information about the MR imaging community from your professional organization."





Editor's Letter

Julie Strandt-Peay, B.S.M., R.T., (R)(MR), FSMRT
Editor, Signals

"The 13 individuals who received awards for submitting their work are from six different countries and are pictured in this issue."

Dear Readers,

It is with extreme pleasure that this post SMRT Annual Meeting issue of *Signals* is made available to you. From record-breaking attendance to award receiving individuals this issue has reports that are evidence of the quality and expansiveness of your SMRT. We begin by meeting the newly installed SMRT President, [Vera Kimbrell](#). Vera shares her MR history with us and provides us with her vision and goals for the future.

The Annual Meeting report exemplifies the depth and quality of the speakers that were recruited and scheduled by Program Committee Chair, [Glenn Cahoon](#). As you will hear throughout this publication, for the first time in the 21 year history of the SMRT, the meeting was sold out. Glenn is to be commended as he demonstrated a calm and professional demeanor during the entire meeting in spite of a full schedule and packed auditorium.

[Barry Southers](#) introduces the second recipient of the John A. Koveleski Award for Professional Development. [Danqing Xiao](#) from Boston, MA, USA, shared her work via video at the meeting. Education Committee Chair, [Rosemary Fisher](#) walks us through some of the many hours of review necessary by volunteers to process and score the abstract submissions to the meeting. The 13 individuals who received awards for submitting their work are from six different countries and are pictured in this issue. It is appreciated that they shared their work and congratulations to them all for a job well done. The Poster Walking Tour and Reception continues to be a popular event at the

meeting for sharing ideas and renewing acquaintances.

This year the ISMRM/SMRT Joint Forum co-chaired by [Michael Macilquham](#) and [Garry Gold](#), was well attended by a spectrum of individuals ranging from radiographers and technologists to physicians and scientists. Michael reports on the unique imaging of Parametric Mapping of Cartilage that was presented by a panel of world class MR experts.

During the Annual Meeting the business of the SMRT is conducted and the gavel is passed from one president to the next. Secretary, [Cindy Hipps](#) reports on the business conducted at the Melbourne meeting. Included in her report are the financial status, the membership status and the new collaboration with the Society for Nuclear Medicine Technologists (SNMTS).

You are reminded to save the date of 20–21 April 2013, for the 22nd SMRT Annual Meeting in Salt Lake City, UT, USA. [Barry Southers](#) is the Chair of the 2013 Program Committee and [Rosemary Fisher](#) has again accepted the responsibility of the Education Committee. Please prepare now to include this valuable educational activity in your plans for next year.

[Cindy Comeau](#), External Relations Chair reports on the Society for Nuclear Medicine Technologists (SNMTS) meeting that was held shortly after her return from Melbourne. She emphasizes this important collaboration as technology for both specialties merge into one imaging modality.

A 40 percent increase in members outside of North America is reported by [R. Scott Dunn](#), Chair of the Membership Committee. He shares his observations of the Annual Meeting, why the meeting was sold out and quotes a notable figure in the MR community who holds the SMRT in high regard.

It is time to think about the future of the SMRT and who should be involved in the leadership team. Nominations and Awards Committee Chair, [Charles Stanley](#) invites the membership to participate in this important action. Nominations are accepted for President-Elect and Policy Board members as described in the standard operating procedures. Note the date for submitting names to the nominating committee in the report. SMRT members are also asked to reflect on individuals who have made "Outstanding Contributions to the Education of Magnetic Resonance Technologists" for consideration to be a recipient of the Cruess-Kressel Award.

The SMRT has completed the 56th *Educational Seminars Home Study* as reported by [Anne Marie Sawyer](#). This issue affords a look at new techniques in musculoskeletal imaging. Anne also organizes the online video and electronic educational material for the SMRT. All of these lessons are accredited for continuing education credits. Check out how many opportunities there are for you to learn more about your field on the SMRT website.

Chapter Chat is brought to you by [Carol Lee](#), outgoing Chair of the Local Chapter committee. She shares the upcoming schedule, encourages you to participate

in or begin a chapter and reflects upon her time of service in the SMRT. Newly elected Policy Board member [Michael Schlenk](#) is transitioning into becoming the next Chair of the Local Chapter committee.

[Betsy Sestina](#), Chair of the Regional Seminars committee lists the upcoming educational programs. She encourages you to host a seminar explaining that the central office is helpful and supportive to those who conduct a regional meeting. It is recommended that you check the SMRT website often for postings of regional seminars and other educational activities.

The MR technologists and radiographers of Belgium, the Netherlands and Luxembourg are fortunate to have the energy of [Filip De Ridder](#) nearby. Filip and his Co-chairs have hosted the fifth SMRT Benelux Regional seminar. Drawing more than 150 attendees, this seminar is clearly addressing a need for MR education in Western Europe. Congratulations on five successful years!

You are reminded that the SMRT participates in the Radiological Society of North America (RSNA) as one of the Associated Sciences. This year [Cindy Comeau](#), Chair of the External Relations committee, is co-moderating the session: *Implications of Changing Face of Health Care: Aging*

and the Shift of Population. See the RSNA Associated Science program printed for you in this issue.

A calendar of events is included at the end of this publication; however you are urged to visit the SMRT website for the latest schedule of events and activities. To better keep in touch and to disseminate the information needed to assist you in obtaining continuing education and pertinent information for your daily work, the SMRT is making a determined effort to increase the use of social media. So "Like us," "Friend us," and let us know how we can help YOU.

Happy Reading! 



Program Chair, Glenn Cahoon welcomes attendees to the 2012 Annual Meeting



The auditorium is at capacity as the attendees listen and take notes during the didactic sessions



2012 SMRT Annual Meeting Report

Glenn Cahoon, B.App.Sc., Dip.Ed., MApp.Sc.
Chair, 2012 Annual Meeting Program

"This was an ideal opportunity to reflect on the history of the SMRT, and an excellent opportunity for our delegates to meet and socialise with our presenters, sponsors, the SMRT Board and fellow MR professionals."

"Celebrating a New Era in MR Education"

The 21st Annual Meeting of the SMRT, in collaboration with the 7th Annual Meeting of the SMRT ANZ Chapter, held in Melbourne, Australia, on 5–6 May 2012, was a landmark meeting for our society. It was the first SMRT meeting to sell out available seating, making it the largest gathering of MR technologists in our 21 year history; the first to be held in collaboration with a local chapter; and only the second time the meeting has been held in the Southern Hemisphere.

Over 500 attendees were treated to a first class program presented by an outstanding faculty of international speakers, with a range of forums covering a variety of MR topics from introductory physics to advanced neuro, body, and cardiac MRI. In addition to the excellent program, delegates celebrated our 21st year in style with an exclusive, social function at Alumbra in the docklands on Melbourne's waterfront. This was an ideal opportunity to reflect on the history of the SMRT, and an excellent opportunity for our delegates to meet and socialise with our presenters, sponsors, the SMRT Board, and fellow MR professionals. A memorable photo montage, created by our very own Policy Board member *Carol Lee*, was displayed on video screens throughout the evening highlighting many of the significant members of our society and attendees at our past meetings.

The weekend started off with the traditional poster presentation and reception on Friday evening, where delegates could view the many wonderful submissions from all over the world, while sharing time with friends old and new. The award recipient authors in both the clinical and research

categories shared a brief review of their work.

The didactic educational program was once again divided into forums with a balance of clinical and research topics. *Charles Stanley*, SMRT President 2011–2012, officially opened the meeting with a warm welcome. Past



Michael Moseley, Ph.D.

President of the ISMRM, and long-time friend of the SMRT, Professor *Michael Moseley* from Stanford University, Stanford, CA, delivered the keynote address for our physics and technology forum. His talk entitled "Future Directions in MRI" set the stage for the impending battle between competing research and clinical techniques, and what lies just beyond the horizon for the MR profession.



Walter Kucharczyk, M.D., FRCPC

Professor *Walter Kucharczyk*, from the University of Toronto, Ontario, Canada, gave us a novel insight into how MR images are formed in k-space with his presentation "Principles of Image Formation Based on Spatial Frequencies." Following with an informative presentation outlining the theory behind and the application of multi-transmit technology for improving MR images was Professor *Paul*



Paul Glover, Ph.D.

Glover from the University of Nottingham,

England. Closing the first session was Professor *Daniel Sodickson*, New York University Langone Medical Center, NY,



Daniel K. Sodickson, M.D., Ph.D.

with a tantalising illustration showing how "Compressed Sensing" is poised to change the way we perform MR examinations.



James Stirling, M.Sc., D.C.R., D.M.S.

After the morning break, MR technologist *James Stirling* from the Paul Strickland Scanner Centre in Middlesex, England, spoke on "Multi-parametric MRI in Tumour Assessment." James showed how with correct sequences and post processing, MRI has moved beyond simply evaluating tumour anatomy, and can now provide a greater understanding of tumours allowing us to predict and monitor responses to therapy. Nuclear medicine program director for Regis College Boston, MA, *David Gilmore* followed with a talk on the reality of PET/MR. David has been



David Gilmore, M.S., CNMT, R.T. (R)(N), FSNMTS

working closely with *Cindy Comeau* of the SMRT through collaboration with the Society of Nuclear Medicine Technologists (SNMTS) to produce a consensus paper. With the introduction of this new hybrid technology the consensus paper will provide introductory guidelines on the educational and certification requirements for technologists.



Dr. Michael Cheung, B.Sc.(Hons), MB ChB, MRCP(UK)

The Annual Business Meeting preceded lunch and that report follows later in this issue. After the lunch break, the first of our proffered paper sessions, research focus, was held. See the Education Committee report for details and award recipients.

A Cardiac Forum was opened by Associate Professor **Michael Cheung** from Melbourne, Australia, with a cardiologist's perspective of congenital cardiac MR. This interesting lecture showed how CMR has become an integral diagnostic tool in the clinical workup of patients with congenital heart disease. **Dr. Jeffery Tsao** from McKinsey & Company in Boston, MA, followed with an excellent presentation on the evolution and introduction of fast



Jeffery Tsao, Ph.D., M.B.A.

scanning techniques in cardiac MR. **Scott Reeder** from the University of Wisconsin, Madison, WI, ended the session looking at the advent and utility of Cardiac MRI at 3Tesla.



Scott Reeder, M.D., Ph.D.

The final session on Saturday was a pediatric forum. **Professor Michael**

Ditchfield from the Monash Medical Centre, Melbourne, Australia, spoke about the challenges, and importance,

of imaging bone marrow in children. Sharing the challenges and techniques for performing pediatric liver MRI, **Shreyas Vasanawala** of Stanford University, Stanford, CA, spoke next. **Erin**



Shreyas Vasanawala, M.D., Ph.D.

Robbins, Chief MR Radiographer at

Princess Margaret Hospital for Children in Perth, Western Australia, rounded out the first day with an insightful address on how, and why, they perform magnetic resonance urography (MRU) on their patients.



Erin Robbins, Dip. App.Sc.

Sunday morning saw the dawning of another day of stimulat-



Hollis G. Potter, M.D.

ing educational sessions. The first session of the day was dedicated to musculoskeletal imaging, and was opened by **Dr. Hollis G. Potter** from the Hospital for Special Surgery in New York, NY. She centered on the need to image patients with joint replacements, and the challenges and techniques to improve imaging in these patients. **Dr.**



William B. Morrison, M.D.

Richard Kijowski, University of Wisconsin, Madison, WI, followed with a comprehensive talk on the anatomy and clinical MR imaging of the elbow. Continuing the upper arm theme with imaging of the hand and thumb was **Dr. William Morrison**



Richard Kijowski, M.D.

from the Thomas Jefferson University hospital in Philadelphia, PA. **Dr. Lawrence Tanenbaum**, from Mt. Sinai Medical Center in New York, NY, concluded the MSK session with an excellent presentation on the techniques and optimisation of diffusion imaging in the spine.



Lawrence Tanenbaum, M.D.

The Neuro Forum following the morning break

was opened by **Dr. Matthias van Osch** from Leiden University Medical Centre in the Netherlands. Matthias kindly agreed to speak at late notice on the program as fellow colleague **Dr. Mark A van Buchem** was unable to attend. Matthias gave a very informative and entertaining tutorial on ultra high field MRI. Susceptibility weighted imaging sequence and susceptibility mapping were the topics covered by **Professor Mark Haacke**, Wayne State



Matthias van Osch, Ph.D.

University, Wayne, MI. His presentation highlighted the many current and future clinical applications of this technique. The Neuro Forum was finished by **Dr. Mitesh Gandhi**, from the Princess Alexandra Hospital in Brisbane, Australia, with a demonstration of his experience



E. Mark Haacke, Ph.D.



Mitesh Gandhi, MBBS, MRCP (UK) FRCR, FRANZCR

imaging the skull base and neck in clinical patients.

After the lunch break, the second of our proffered papers sessions followed with the clinical focus. See the Education Committee report for details and award recipients. The SMRT awards ceremony was conducted next in the program. See details of each recipient following this report. *Anne Marie Sawyer* from Stanford University, Stanford, CA, the newest distinguished service award recipient, spoke from the podium on the history and mission of the SMRT, as well as an historical perspective on the formation of the



Diego Martin, M.D., M.Sc., Ph.D., FRCP



Anne Michelle Fink, M.D., MRCP, FRCR, FRANZCR



Vanessa Orchard, DCR, MApp.Sc.

ANZ Chapter. Her long and dedicated service to the SMRT is appreciated.

The next forum for the meeting was dedicated to body imaging. *Dr. Diego Martin*, from the University of Arizona, College of Medicine in Tucson, AZ, presented on his work with imaging the bowel on patients with Crohn's disease with MRI. Local experts from the Royal Children's Hospital in Melbourne, *Dr. Michelle Fink* and MRI technologist, *Vanessa Orchard* gave complimentary presentations covering the techniques and challenges of

Fetal MRI, as well as the clinical indications and evaluation of MR imaging.

MR Safety was the featured topic for the final forum of the program. This past year has seen MR safety back in the forefront of discussion, both from outside and within our profession. The



Donald W. McRobbie, Ph.D.

limits for time varying magnetic fields, and related these to the current and proposed guidelines

for both occupational and patient exposures. *Dr. Michael Steckner*, Toshiba Medical Research Institute, Cleveland, OH, co-convenor of the joint working group for active implant safety in MRI, discussed the proposed standards the combined vendors have been working on with the device manufacturers for safe scanning of implants. Long time SMRT supporter, *Dr. Emanuel Kanal*, University of Pittsburgh, Pittsburgh, PA, closed our meeting with a presentation on the changes proposed in the ACR Guidance document for safe MR practices 2012.

presenters and their topics this year were focused on discussing many of these controversies. *Donald McRobbie*, Imperial College, London, England, discussed exposure



Michael Steckner, Ph.D., M.B.A.



Emanuel Kanal, M.D., FACR

A meeting of this size and calibre would not have been possible without the enormous effort and preparation from the SMRT home office, our SMRT volunteers, the joint efforts of the Program and Education Committees and the generous support from our local and international sponsors. I would like to make special mention of our Platinum Corporate Members this year, *Bayer*, *GE Healthcare (ANZ)*, *Philips (ANZ)*, and *Siemens (ANZ)* for their continued support of the SMRT and in particular the support of the ANZ chapter. Without these collaborations we would not be able to bring such high quality programs to local technologists.

To all of you who came to Melbourne and participated in this historic meeting, I thank you. I hope you were informed, entertained and most of all inspired. We hope to see you, and all those who were unable to attend this year, at an SMRT educational seminar soon, or join us next year, as we celebrate our 22nd Annual SMRT Meeting in Salt Lake City, Utah, USA, 20–21 April, 2013. 



Left to right: Wendy Strugnell, Michael Moseley and Dan Sodickson

Moments and Memories from the 2012 Annual Meeting



Left to right: visiting attendee, Erin O'Brien; External Relations Chair, Cindy Comeau; Signals Editor, Julie Strandt-Peay; Past Education Committee Chair, Maryann Blaine



Mark Smith presents his work during the proffered paper session



Left to right: RCEEM Chair, Heidi Berns; SMRT Past-President, Julia Lowe and ISMRM member Mark Lowe



Jim Stuppino, former Policy Board member and Anne Marie Sawyer, Educational Seminars home study Editor, share thoughts during the Poster Reception



Attendees listen closely to the presentation at the Poster Walking Tour



Left to right: 2012 SMRT President, Vera Kimbrell, with authors of the President's Award Paper; Shawna Farquharson and Saba Ansari

SMRT



Thank You to our corporate members

The Section for Magnetic Resonance Technologists gratefully acknowledges the following donors for their generous support of the SMRT 21st Annual Meeting in collaboration with the 7th Annual SMRT ANZ Chapter Meeting:

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2012 SMRT Award Recipients

2012 SMRT Honorary Member Award

This award is given to recognize extraordinary achievement and an exceptional level of service and support for the Section and mission of the SMRT.



Julie Strandt-Peay, B.S.M., R.T., (R)(MR), FSMRT
MRI Program Manager
Department of Biophysics
Medical College of Wisconsin
Milwaukee, Wisconsin, USA

Julie is grateful to receive the SMRT Honorary Member Award. Her MR imaging career began in 1986 as a Research MR Technologist for the Medical College of Wisconsin in Milwaukee, WI. That work led to her first MR scientific presentation in 1989 "Small FOV MR Imaging" at the Society of Magnetic Resonance Imaging (SMRI) Annual Meeting, in Los Angeles, CA. In 1991 she gave an oral paper "MRI of the Spine" at the technologist session of the SMRI Annual Meeting in Chicago, IL. She also gave an oral presentation "MRI of the Foot and Ankle" in 1991 at the Society of Magnetic Resonance in Medicine (SMRM) Annual Meeting, in San Francisco, CA. In 1992 she was chosen to give two oral presentations "MRI of the Wrist" and "MRI of the Facial Nerve" at the SMRI Annual Meeting, New York, NY.

Julie joined the SMRT when it was formally established. Her commitment to sharing her work with the MR technologist community was recognized when in 1993, Julie was the first technologist to receive the Crues-Kressel Award given "for Outstanding Contributions to the Education of Magnetic Resonance Technologists" at the Annual

Meeting of the SMRT in New York, NY. She also offered two scientific posters "MRI of the Breast" and "Technical Considerations in Fast Spin Echo Imaging" at that meeting. In 1994 she was invited to lecture on "Current Trends in MRI Coil Technology" at the SMRT Annual Meeting in Dallas, TX. At this time she was the MR Manager for St. Joseph's Hospital in Milwaukee, responsible for the operation of three magnet sites.

Julie completed her Bachelor of Science degree in Management (BSM) and successfully completed the first examination for the Advanced Certification in MR of the ARRT in 1995. She was invited to speak on MR Coil Technology at the regional meeting in Boise, ID. She gave

two oral presentations at the SMRT 6th Annual Meeting, in McLean, VA: "Educational Learning Tools for MRI" and "Staffing Model for MRI Facilities."

Beginning in 1996, Julie shared her experience working at 0.5T with a regular column in the SMRT *Signals* newsletter. The first article addressed Musculoskeletal Magnetic Resonance Imaging at 0.5 Tesla: Achilles tendon. She was selected for two oral presentations in 1996 at the SMRT 5th Annual Meeting, New York, NY: "Optimization of 3-D MRA at 0.5T" and "Continuation of Staffing Model for MRI." The latter talk was suggested because of the extreme interest in her staffing model presented the previous year. In 1996 she also began

her three year term on the SMRT Policy Board, and hosted a SMRT Regional Educational Seminar meeting in Milwaukee, WI.

Julie served as 1997 Program Chair for the SMRT 8th Annual Meeting in Vancouver, Canada, and implemented significant changes that continue today. The success of this effort prompted her re-appointment as 1998 Program Chair and member of the Executive Committee for the SMRT 7th Annual Meeting in



President Vera Kimbrell presents the Honorary Membership Award to Julie Strandt-Peay

Sydney, Australia. Julie was elected to serve as the President of SMRT in 1998. Her President's Regional Educational Seminar was held in Madison, WI. She enthusiastically promoted the SMRT and the expansion of quality educational programs available for the MR technologist worldwide, during her term.

As SMRT President she was invited to write a regular column for *Advance for Radiologic Science Professionals*. She named the column "Magnetic Flux" to represent the ever changing field of MR. While President she also represented the SMRT to the Health Professions Network (HPN). During her stint in Madison, WI, Julie worked as a MR Research Technologist at the University of Wisconsin and continued to share scientific presentations of her work. She received the Second Place Research Award in 2000 at the SMRT 9th Annual Meeting in Denver, CO for "Three Dimensional Time-resolved Imaging of Contrast Kinetics: Results of the 3D TRICKS Method of Performing MR Angiography." In 2002 her oral presentation "Evaluation of Ischemia in a Primate Model: A Feasibility Study Combining X-ray Digital Subtraction Angiography and Fluoroscopy with Magnetic Resonance Imaging" received the first place research award. Also at the 2002 meeting, Julie received the Fellow of the Section Award for "significant contribution to the SMRT in fulfilling substantial contributions to its educational mission." Becoming a Fellow was a professional milestone.

Julie was a SMRT representative for the RSNA Associated Sciences from 2000 to 2002 conducting the Refresher Course: "The Process of Managing Outcomes," focusing on the informed consent process. In 2002 Julie returned to the Medical College

of Wisconsin as the MRI Program Manager where she is currently responsible for MR Safety and Training. Her poster "Magnetic Resonance Safety Training: Implementing a Program in the Research Environment" received the Second Place Research Award in 2006 at the SMRT 15th Annual Meeting in Seattle, WA, USA. At that same meeting Julie received the Distinguished Service Award for "outstanding contributions and extreme level of effort and service to the operation, effectiveness, and good reputation of the Section."

Because of her work in MR safety, she was invited in 2007 to offer "MRI Safety Training: How to Implement a Program Where You Work," at the SMRT 16th Annual Meeting in Berlin, Germany. She shared her work in 2008 at the SMRT 17th Annual Meeting in Toronto, Ontario, Canada with her poster "Safer Gadolinium use for human subjects in Research Magnetic Resonance (MR) Studies: Implementation of a Screening Process."

Julie has served on the Awards, Education, Program, Publications

and Newsletter Committees including reviewing abstracts and posters for several years. She has moderated sessions at Annual Meetings and has chaired and participated in several SMRT Regional Educational Seminars. Since 1997 Julie has served regularly on the *Signals* Newsletter Committee. She accepted the position of Editor in 2001, following the SMRT 10th Annual Meeting in Glasgow, Scotland when her responsibility of Past-President was completed.

Julie is an *ex-officio* member of the SMRT Policy Board as the chair of the sub-committee and under her leadership the *Signals* newsletter has evolved from a quarterly mailed hard copy, through an electronic full color PDF format and now is posted on dedicated space on the SMRT web site. Two special issues are printed each year, one immediately after the Annual Meeting and another as a "Year in Review" which is timed for display at the RSNA meeting. These hard copy issues are used for information and promotion of the SMRT. Julie gathers the material, pre-edits, assists in layout and selects photographs to be included. The current process of posting *Signals News* on the web site provides information for the membership and is sensitive to economic and ecologic concerns. Dedicated to the professionalism and educational value of the SMRT Julie has remained involved at a high level as Editor of *Signals* and *Signals News*.

Julie has attended and participated in the annual and mid-year Policy Board Meeting every year since 1996 for a total of 30 consecutive meetings. She feels privileged to have been a part of the SMRT and hopes to serve this worthwhile organization into the future! 

Prior SMRT Honorary Member Award Recipients	
2011	John Wilke
2010	William Faulkner
2009	Herbert Y. Kressel
2008	No award given
2007	Michael Moseley
2006	Anne Marie Sawyer
2005	No award given
2004	Emanuel Kanal
2003	Frank Shellock
2002	Carolyn Roth

2012 SMRT Award Recipients

SMRT 2012 Fellow of the Section Award

This award is given in recognition of significant and substantial contributions to the mission of the SMRT.



Maryann Blaine, MAT, B.S., R.T.(R)(MR), FSMRT
MRI Program Director
Massachusetts College of Pharmacy and Health Sciences (MCPHS)
Boston, Massachusetts, USA

Maryann became actively involved in the SMRT at the regional level in 2006 when she designed and implemented the Primary Pathway MRI Program at Massachusetts College of Pharmacy and Health Sciences. That same year, her passion for MRI education led her to serve on the SMRT Education Committee as well as the Student Scope Subcommittee. During the next two years Maryann assisted in revising the Student Scope review process and became

more actively involved in the Education Committee as well.

In 2008, Maryann was elected to the SMRT Policy Board for a three year term which ended in Montreal, Canada. During her three years as a Policy Board Member, Maryann served on several committees in addition to chairing the By-laws and Education Committees respectfully. As Chair of the Bylaws Committee, Maryann was charged with developing a template

and coordinating the updating of all SMRT SOP (standard operating procedure) documents.

In 2009, Maryann was appointed as the Chair of the Education Committee for a two year term. With the assistance and encouragement of many volunteers, Maryann was able to accomplish a great deal during these two years. Further revisions of the Student Scope process led to the Sub-committee for

Continued on page 13 ➡



Wendy Strugnell, B.App.Sc.(MIT), FSMRT
Director of MRI Services
Queensland Health Centre of Excellence in Cardiovascular MRI,
Prince Charles Hospital
Brisbane, Queensland, Australia

Wendy Strugnell is the Director of MRI Services at the Queensland Health Centre of Excellence in Cardiovascular MRI. Shortly after joining the SMRT in 1998 Wendy became the Queensland representative for the Australia-New Zealand (ANZ) Chapter and served in that role until she became President of the ANZ Chapter in 2006. In 2004 she was elected to the Policy Board and served as the inaugural chair of the Global Relations Subcommittee of the External Relations

Committee and began working towards making the SMRT more relevant to its global membership. During this time, Wendy facilitated accreditation of SMRT educational activities for Australian and New Zealand radiographers.

In 2006 Wendy established the Annual Meetings of the ANZ Chapter holding the first meeting in her hometown of Brisbane. The meetings are now the largest Regional Meetings of the SMRT attracting an annual audience of around

300 delegates. As well as providing Australian and New Zealand MR radiographers with the highest quality educational forum in the region, the meetings also served to showcase the SMRT to a new market. Since the first meeting in 2006, ANZ membership has increased significantly and approximately a third of all registered MR Radiographers are now SMRT members.

In 2007 Wendy became President-Elect and commenced her term as President

Continued on page 13 ➡

Maryann Blaine continued from page 12



Maryann Blaine is recognized as a Fellow of the Section by incoming President Vera Kimbrell

Professional Development and the awarding of the first John A. Koveleski Award for Professional Development in Montreal, Canada 2011. The formation of a mentorship program and the year round availability of website assistance for potential authors of abstracts and posters were also put in place. Recognizing the need for a more user friendly, streamlined process for abstract submission led to modification of the entire abstract submission process and abstract review process.

Since rolling off the Policy Board in 2011, Maryann has remained active on several committees and continues to organize New England Regional Meetings. She has also been appointed to serve as a member of the PET/MR Task Force and continues to encourage others to become involved with the SMRT as both members and volunteers.

Maryann is truly honored to be selected for the Fellow of the Section Award and looks forward to many more years of service to the SMRT. 

Wendy Strugnell continued from page 12

Prior Fellow of the Section Award Recipients	
2011	Muriel Cockburn, Laurian Rohoman
2010	Cindy Comeau, Maureen Hood
2009	Gina Greenwood, Donna O'Brien
2008	Julia Lowe
2007	Greg Brown, Cindy Hipps
2006	Maureen Ainslie, Bobbie Burrow
2005	Michael Kean, Anne Marie Sawyer
2004	Heidi Berns, Carolyn Roth
2003	Robin Greene-Avison
2002	Kelly Baron, Julie Strandt-Peay
2001	Luann Culbreth, William Faulkner

The SMRT congratulates past award recipients of Fellow of the Section



Wendy Strugnell is recognized as a Fellow of the Section by incoming President Vera Kimbrell

at the SMRT 17th Annual Meeting in Toronto, Ontario, Canada. As President, Wendy was focused on one of the main goals of the SMRT—providing high quality education worldwide—from revamping the format of the Annual Meeting to include more speakers and a wider range of topics to overhauling the abstract submission system to raise the

standards and integrity of the process. As a Past President, Wendy has continued to be actively involved in the workings of the SMRT. She serves on the Education Committee continuing to work on refining the abstract submission and review process and as an abstract reviewer. She is also a member of the Past-President's Council, the Publications Committee, the Nominating Committee, the RCEEM Ad-Hoc Committee and the 2012 Program Committee. She is also a member of the Executive Committee of the ANZ Chapter and this year was a Co-Chair of the 6th Annual Meeting of the ANZ Chapter.

Wendy is delighted to be selected for this award and to be considered in such an esteemed group of previous recipients is indeed an honour. 

2012 SMRT Award Recipients

2012 SMRT Distinguished Service Award

This award is given to recognize outstanding contributions and extreme level of effort and service to the operation, effectiveness, and good reputation of the SMRT.



Anne M. Sawyer, B.S., R.T. (R)(MR), FSMRT Manager, MR Whole Body Research Systems Radiological Sciences Laboratory Richard M. Lucas Center for Imaging Stanford University School of Medicine, Department of Radiology Stanford, California, USA

Anne began her career in Magnetic Resonance Imaging in September 1985 as a MR Applications Specialist for G.E. Medical Systems providing education on-site for customers with new installations and system upgrades. In 1987, Anne became the Supervisor for MR Applications Specialists in the Western Region of the USA. In 1990, she became the Manager of Applications Specialists in the Western Region including MR, CT, X-Ray, Nuclear Medicine, and Mammography. In 1991, she became a member of MR Advanced Applications and Customer Support at GE headquarters in Milwaukee, Wisconsin, USA. Her primary responsibilities included customer education, organization and direction of educational symposia, development of educational material and tools, assistance in the design and implementation of software, hardware, and imaging accessories and support for pre-product clinical evaluations. During this time, she co-authored Volume IV Applications Guide, Fast Imaging, and numerous articles in user newsletters.

In 1993, Anne became the Manager of MR Whole Body Research Systems in the Radiological Sciences Laboratory located at the Richard M. Lucas Center for Imaging in the

Stanford University School of Medicine, Department of Radiology. Anne provides technical, scientific, and educational consultation to researchers, and assistance in the design and direction of research studies conducted at the Lucas Center on the 3.0T (3) and 7.0T whole body MR systems. Anne maintains a website to support users of the center and to distribute MR-specific documentation. Beginning in 2002, Anne has participated as faculty and co-directed the Stanford University Radiology Department post-graduate course in Breast MR Imaging and Intervention.

Anne has been a member of the Section for MR Technologists (SMRT) of the International Society for Magnetic Resonance in Medicine (ISMRM) since 1991. In 1994, Anne was elected to the

Policy Board of the SMRT. From 1995 to 1997, Anne chaired the Regional Seminar Committee and assisted in the coordination of SMRT local educational meetings. From 1997 to 2000, she served the SMRT as President-Elect, President, Past President, Chair of the Nominating Committee, Chair of the Awards Committee, and as a member of the Executive Committee.

In May 2001, the membership awarded her the Crues-Kressel Award for outstanding contributions to MR technologist education. From 2001 to 2004, Anne served as the Treasurer of the Section. In January of 2004, Anne became the editor of the SMRT *Educational Seminars* home study program. Anne directs the organization of this accredited publication that is distributed to SMRT members quarterly.

In 2005, the SMRT honored Anne with elevation to Fellow of the Section. In 2006, Anne received the prestigious Honorary Membership of the SMRT in recognition of her major achievements in the field of magnetic resonance.

In 2008, electronic-only home studies were added to the SMRT library under Anne's direction as well as video home studies in 2011. In 1994, Anne was the Program Chair for the Northwest



Anne Marie Sawyer receives the Distinguished Service Award presented by Vera Kimbrell

SMRT Regional seminar conducted in San Francisco, CA, USA. In 1999, she co-chaired the President's Regional seminar in Woodland Hills, California, USA. In 2004, 2005 and 2011, Anne co-chaired two-day SMRT Regional Educational Seminars conducted at Stanford University in Stanford, CA, USA. Anne's peer-reviewed accepted abstracts at the SMRT Annual Meetings include: "fMRI of the Motor Cortex: Comparison of EPI and Spiral Pulse Sequences;" "Development of a Breast MR Imaging Protocol for Detection and Characterization of Breast Cancer;" "Anatomical Location & Configuration of ECG Electrodes for Cardiac MR Imaging;" and "The Use of 3-Point Dixon and Inversion Recovery Fast Spin Echo to Image Silicone Breast Implants for Rupture Detection."

Before becoming editor of the SMRT home study program, Anne participated by developing and editing the very first edition titled "Functional MRI: Capabilities and Limitations;" co-authoring "MR Screening Procedures and Safety Considerations for Biomedical Implants and Devices;" generating images for the "Atlas of Cranial Neuroanatomy;" and co-authoring "MR Imaging of the Breast."

For five years, Anne participated as a member of the Safety Committee of the ISMRM. At the ISMRM Annual Meeting in May 2002, Anne organized and moderated the first SMRT Forum for the parent society on "MR Screening and Safety." In 2002 and 2005, she participated as an invited speaker at the ISMRM Safety Workshop.

At the annual meeting of the ISMRM in 2007, Anne participated as faculty at the Categorical Courses speaking on "MR Screening and Safety Procedures" and in 2009, "Accidents in MRI." In 2008, Anne co-directed the ISMRM Body Imaging Workshop in Berkeley, California, USA.

Additional peer-reviewed publications since 1992 include abstracts, journal articles, and book chapters. Anne has co-authored several accepted peer-reviewed abstracts (SMRM, SMRI, SMR, ISMRM, RSNA, American Roentgen Ray Society, and Annual Society for Neuroscience) and published journal articles (Radiology, Applied Radiology, JMRI, Radiographics, Plastic and Reconstructive Surgery, Behavioral Brain Research, and Archives of General Psychiatry). She has co-authored three book chapters: "Imaging Techniques: Pulse Sequences" in the third edition of Magnetic Resonance Imaging of the Body (1996); and "Pre-MR Procedure Screening" and "The MR Environment and Implants, Devices, and Materials" in Magnetic Resonance Procedures:

Health Effects and Safety published in 2001. Anne contributed to the MRI Learning Modules for Technologists published by Bracco Diagnostics, Inc., in which she authored Volume 4, Magnetic Resonance Imaging of Breast Disease in 2000. Additional publications include: "Functional Magnetic Resonance Imaging (fMRI): Challenges in Patient Preparation and Imaging Accessories," ADVANCE for Radiologic Science Professionals (1999); and, "The Basics of Magnetic Resonance Imaging of the Heart," Diagnostic Imaging: Index & Reviews (1999).

Anne has lectured extensively on a wide variety of subjects in Magnetic Resonance Imaging since 1988. Since 1994, she has participated as an invited speaker in many SMRT Regional Seminars and Annual Meetings held around the world. Anne's current invited lectures include MR Safety and Screening, MR Imaging of the Breast, Functional Imaging of the Brain, and The Challenges of MR Imaging at 7.0T. In March of 2010, Anne participated as an invited committee member for the FDA Circulatory System Devices Panel that

reviewed the REVO MRI SureScan Pacing System (Medtronic, Inc.). Anne also participates on the Technology Advisory Board for the IMRSER (Institute for Magnetic Resonance Safety, Education, and Research). The IMRSER is an independent, multidisciplinary, professional organization devoted to promoting awareness, understanding, and communication of MR safety issues through education and research. [S]

Prior Distinguished Service Award Recipients	
2011	Cindy Hipps
2010	Denise Echelard R.T., (R)(MR)
2009	Bobbie Burrow
2008	Heidi Berns and Laurian Rohoman
2007	Julia Lowe
2006	Julie Strandt-Peay
2005	No award given
2004	Kelly Baron
2003	Richard Helsper
2002	Donna O'Brien



Professional Development Report

G. Barry Southers, BRST, R.T. (R)(MR)
Chair
Professional Development Committee

"We encourage everyone to spread the word about this wonderful award, dedicated to the life and memory of a fellow MR professional and SMRT leader who played such a crucial role for the growth and success of countless members in our profession."

In March of 2012, the SMRT announced the winner for the Second Annual John A. Koveleski Award for Professional Development. The award went to [Dr. Danqing Xiao, Ph.D.](#), from the Massachusetts College of Pharmacy and Health Sciences in Boston, MA, for her abstract on "A Better Imaging Position for Injured Joints of the Hand." Although Dr. Xiao could not attend the SMRT Annual Meeting in Melbourne, Australia, her poster was displayed for the entire meeting and during the Awards Ceremony; a video demonstration of her abstract was presented to the SMRT Annual Meeting attendees. Congratulations to Dr. Xiao!

The Education Committee and the Subcommittee for Professional Development of the SMRT have been hard at work over the past year, and although our number of abstract submissions increased from the inaugural year, we are still looking to reach a larger group of MR professionals on a global scale, so please help spread the word about this wonderful award.

For the John A. Koveleski Professional Development Award, we invite MRI students, graduate students, and MR radiographers and technologists practicing less than three years to submit abstracts. Qualification will be

determined by a resume/CV submitted by the author. The 2013 award recipient will receive a \$150 monetary award, a three-year membership in the SMRT, and the honor of participating as a member of the SMRT Subcommittee for Professional Development for one year. In addition, the recipient will be invited to present their work at the annual meeting, if possible. If the recipient is not able to attend the meeting, the abstract will be displayed as a poster and will work with the SMRT to create a short video demonstrating the winning abstract during the annual meeting. The award-winning abstract will be published in the Annual Meeting materials, and on the SMRT Website.

At the time John A. Koveleski was SMRT President in 2002, he was asked what he would like to see the SMRT accomplish in 2002, as well as in the future. John's response was, "I'd like to see a continuation of international growth and also growth from the 'grass roots' technologists - those working in the trenches at outpatient centers, etc., that represent well over 90% of the technologists employed in the field." John recognized that each member played a role in the future success and growth of the SMRT, and as a result he played a vital role in the professional development of many technologists.

One such technologist is [Cindy Hipps](#) who commented, "John Koveleski was my colleague first, but fast became my friend because of his warm smile, professional demeanor, and helpful attitude. John believed that all technologists had a contribution to make to our profession and he encouraged everyone to get involved in the SMRT. He was instrumental in my professional development and SMRT involvement, and I will always cherish his memory."

We encourage everyone to spread the word about this wonderful award, dedicated to the life and memory of a fellow MR professional and SMRT leader who played such a crucial role for the growth and success of countless members in our profession.

As a first step in your professional development, early in your career, we hope many of you will begin sharing your ideas and discoveries with the SMRT. Please consider this your personal invitation to contribute by submitting an abstract for this award.

For more information about, or to submit an abstract for this award, please visit the website, at www.ismrm.org/smrt/JAK/. 

*The SMRT congratulates the
John A. Koveleski Award Recipients*

John A. Koveleski Award Recipients	
2012	Danquig Xiao
2011	Amanda Golsch

2012 SMRT Award Recipients

2012 SMRT John A. Koveleski Award for Professional Development



Danqing Xiao, Ph.D.
Massachusetts College of
Pharmacy and Health Sciences
Boston, Massachusetts, USA

The recipient of the second John A. Koveleski Award for Professional Development, *Danqing Xiao* graduated from Boston University, Boston, MA in 2003 with a Ph.D. Degree in Neuroscience. After obtaining valuable research experience as a research fellow at New England Primate Center/Harvard Medical School and Massachusetts General Hospital in the areas of drug

addiction and Parkinson's disease, she was accepted by the MRI imaging program at Massachusetts College of Pharmacy and Health Sciences in 2011. After a three-month internship at the Department of MRI, Beth Israel Deaconess Medical Center, she started her clinical internship at Shields MRI in Boston in January 2012. Currently, she is continuing with her clinical internship

and will be graduating in August, 2012 with a B.S. in MRI imaging. She plans to continue her professional development in the field of MRI technology and neuroscience, being a technologist, scientist and teacher.

Her abstract and poster is titled: "A Better Imaging Position for Injured Joints of the Hand" and can be viewed at www.ismrm.org/smrt/12/.

This award was established to honor John A. Koveleski, SMRT Past-President, in recognizing professional development in MR.



A Better Imaging Position for Injured Joints of the Hand

Danqing Xiao¹, PhD and Mari Englehardt², RT(R)(MR)

¹Massachusetts College of Pharmacy and Health Sciences, Boston, USA; ²Shields MRI, Boston, USA



BACKGROUND

- Hand injuries have contributed to nearly 10% of emergency hospital visits (1).
- The hand consists of intricate and complex networks of bones, muscles, nerves, vasculature, ligaments and tendons, which has prompted MRI hand studies on normal and abnormal structures for accurate diagnosis, such as ganglion cyst, tissue mass, and arthritis (2,3).
- Reports of injuries of the hand joints are very limited. Previous studies show that MRI has the greatest potential in diagnosis of complex injuries of the carpus (4).

We aim to report an effective hand (closed) positioning method for optimum visualization of joint effusion, tendon edema and tear by the metacarpal joint.

TEACHING POINTS

Methods

- Typical hand MRI imaging includes axial, sagittal and coronal views, with the palm open and the fingers stretching out (C). For cases when a joint lesion is suspected, we utilized a fist (hand closed) position in a high-resolution wrist coil to better view the anatomy of the joints (A,A') by proton density (PD) imaging and T2 three-dimensional imaging.
- The patient is in "superman" prone position with the hand and head first into the Siemens Magnetom Espree 1.5 T scanner.

Patient

A 19 years old man who has pain on his third digit, with a history of a "punching" injury two months ago.

Results

- When the fist position is assumed, hyper sensitivity is clearly visualized at the MCP joint on the coronal view, suggesting a small amount of third MCP joint effusion and soft tissue edema along the third extensor digitorum tendon (A,A' and B). The tear is best seen on panel B involving a band in the ulnar aspect at MCP joint.
- T1 imaging shows a vaguely darkened area at carpo-metacarpal joints (MCP, panel C).

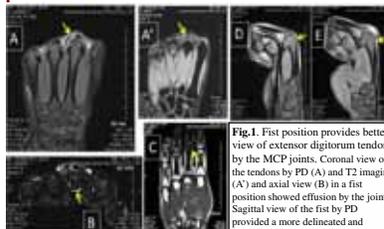


Fig. 1. First position provides better view of extensor digitorum tendons by the MCP joints. Coronal view of the tendons by PD (A) and T2 imaging (A') and axial view (B) in a fist position showed effusion by the joint. Sagittal view of the fist by PD provided a more delineated and detailed view of the tendons and the joints at the second (D) and third (E) digit, compared to palm opened position (C. T1-weighted image).

- In particular, the sagittal PD analysis with fat saturation and turbo spin echo sequence shows the stretched tendon by the knuckle of the fist, which gives rise to the best view of the dorsal tendon groups including extensor digitorum tendon. In this case, there is no evidence of extensor digitorum tendon tear and retraction (D,E, the second and third digit respectively).
- "The closed hand" position also helps to clearly rule out any tear of the radial aspect of MCP joint, collateral ligaments, and abnormality of muscles.

SUMMARY

- The "closed hand" position allows improved visualization of the tendon, which is not otherwise seen clearly and therefore supports its use for MRI diagnostic imaging of joint related injuries.
- This method will further extend the potential of MRI as a diagnosing tool in hand imaging. For example, this positioning may also be applied to phalanges joints imaging this area anatomy to better view the pathology.

References

- 1) http://www.emedicinehealth.com/hand_injuries/article_em.htm.
- 2) Stein,J.M. Magnetic resonance imaging clinics of North America 2011; 19(3).
- 3) Grey,M and Ailiani,J. CT & MRI Pathology 2003.
- 4) Trail, I.A. et al. Journal of Hand Injury (European Vol). 2007; 32(240).

Acknowledgements

Thanks to Prof. Lori Nugent for proof-reading the work, and Mr. Fran Rogers for the poster editing. Thanks to the technologist, Mr. Hary Mallebranche, who acquired the images.

2012 SMRT Award Recipients

SMRT President's Award Paper

This award was established to honor the most outstanding Proffered Paper of the SMRT Annual Meeting.



Saba Ansari, BSc.
MR Radiographer
Brain Research Institute, Florey Neuroscience Institutes
Melbourne, Australia

Department of Medicine
Austin Health and Northern Health
University of Melbourne
Melbourne, Australia

Saba Ansari is the Deputy Research MR Radiographer at the internationally recognized Brain Research Institute, Australia. In her current role, she has been involved with groundbreaking research in neuroscience to help understand the structure and function of the brain. Saba delivers research based MR imaging, particularly functional MRI, EEG-fMRI, spectroscopy, perfusion MRI and diffusion MRI.

Previously, Saba was employed as a radiographer at Royal Children's Hospital, Melbourne, Australia, where she gained extensive clinical experience in general radiography, angiography and Computed Tomography. Saba obtained her Bachelor of Medical Radiations from RMIT University in 2006. She has supported her diverse professional experience with continued postgraduate studies.

Saba gained a Certificate of Accreditation in Magnetic Resonance Imaging from the Australian Institute of Radiography in 2009 and is due to complete her Master of Health Science specialising in Magnetic Resonance Imaging from University of Sydney. Her work is titled: "Incidental Findings in Neuro-Imaging Research: The Impact of Neurological Opinion on the Need for Clinical Follow-up." 



Saba Ansari receives the President's Award for the most outstanding Proffered Paper of the SMRT Annual Meeting

President's Award Paper Award Recipients	
2011	Megan Cromer
2010	Adriane Komancsek
2009	Shawna Farquharson
2008	Violet Chua
2007	Michael Kean
2006	Caron Murray
2005	John Totman
2004	Eric Douglas
2003	Eva Wembacher
2002	Marcela Montequin
2001	Cindy Comeau
2000	Inge Carstens
1999	Cheryl Johnson
1998	Maureen Hood
1997	Richard Nibbs
1996	Jim Garrison
1995	John Wells
1994	Bobbie Burrow
1993	Maureen Ainslie

Incidental findings in neuro-imaging research: The impact of neurological opinion on the need for clinical follow-up

S. Ansari^{1,2}, S. Farquharson^{1,2}, S. Speare¹, S. Mandelstam¹, G. Jackson^{1,2}, A. Connelly^{1,2}

¹Brain Research Institute, Florey Neuroscience Institutes, Melbourne, Victoria, Australia;

²Department of Medicine, Austin Health and Northern Health, University of Melbourne, Melbourne, Victoria, Australia

Background: The recent increase in neuro-imaging based research in both healthy and patient populations has led to an increase in the number of incidental findings being discovered. An incidental finding is an abnormal finding, of health or reproductive importance, discovered in the course of conducting research but beyond the aims of the given study^[1]. Globally, substantial inconsistencies in the expertise available to neuro-imaging researchers are thought to account for the variability in the number of incidental findings reported in studies to date^[1]. For example, at some sites in the USA it is the responsibility of the PhD student operating the MRI scanner to identify any abnormal scans he/she undertakes^[2], whereas in the UK it is recommended by the Medical Devices Agency (MDA) that all MRI scans be performed by a qualified radiographer and routinely reported on by a radiologist^[3]. Previous research clearly highlights that incidental findings could potentially have serious psychological, as well as financial, implications on research participants^[2,3]. In an attempt to reduce the number of unnecessary follow-ups, we obtain a neurological opinion regarding the clinical implications of radiologically observed incidental findings; we report here our investigation into the impact of this practice.

Methods: 491 research volunteers with a mean age of 40years (SD: 23years; range 3months to 91years) were referred to the Brain Research Institute, Melbourne, Australia as part of 43 ethically approved MRI-based research studies. All participants provided written informed consent prior to taking part in this study in accordance with ethical approval from the Human Research Ethics Committee (Austin Health). MRI scans were performed on a 3T Siemens Trio system, by three trained radiographers, between January 2010 and December 2010, using a range of acquisition sequences dependent on the research imaging protocol.

All participants included in this study underwent a research imaging protocol that included a whole brain T1-weighted sequence acquired in the sagittal (3D) or axial (2D) plane. 468 participants also had at least one, or all, of the following; 1) axial or coronal T2 FSE, 2) axial or coronal T2 FLAIR, and/or a 3) susceptibility weighted (SWI) sequences. Systematic review of all scans was carried out by a consultant neuro-radiologist on a weekly basis. All scans with radiological abnormalities noted were further reviewed by a neurologist for clinical opinion. Neurology referrals were classified as either; a) no clinical follow-up required, b) clinical follow-up recommended, or c) priority/immediate follow-up required.

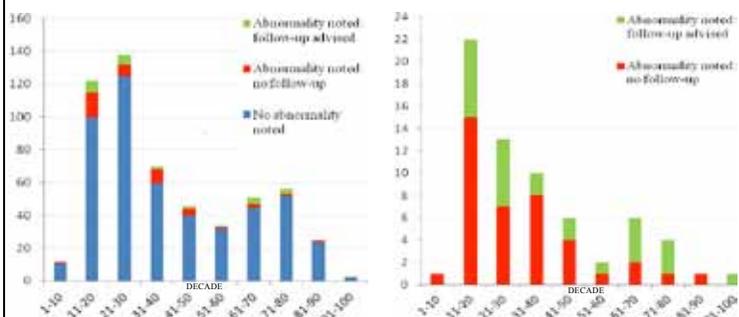


Figure 1: Shows the distribution of the total number of participants per decade of life: no abnormality noted (blue), radiological abnormalities not requiring follow-up (red) and radiological abnormalities requiring follow-up after neurological opinion (green). **Figure 2:** Shows the distribution of incidental findings per decade of life: radiological abnormalities not requiring follow-up (red) and radiological abnormalities requiring follow-up after neurological opinion (green).

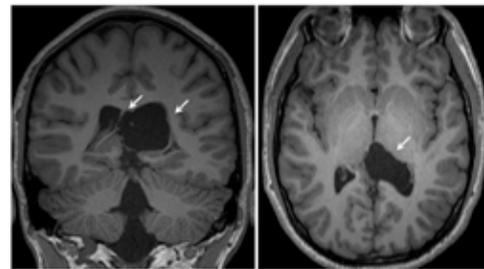


Figure 3: T1 weighted images of an 18 year old research participant (left: coronal / right: axial). White arrows indicate the incidental finding; a 3x3x2cm multi-septated cyst within the posterior horn of the left lateral ventricle, expanding the left posterior horn, causing mass effect on the septum pellucidum and internal cerebral veins.

Results: Incidental findings were reported by the radiologist in 66 of the 491 (13%) research volunteers. Neurological assessment of the 66 participants with incidental findings resulted in 25 (38%) being recommended for clinical follow-up, whilst 41 (62%) did not require follow-up. Of the 25 participants recommended for follow-up, 18 were deemed by the neurologist to require priority follow-up. These findings were comprised of; 1 aneurysm, 13 suspicious brain lesions (which included suspected gliomas, macroadenomas, demyelinating disease) and 4 cysts causing mass effect.

Discussion & Conclusion: This study found 66 radiological incidental findings from a total of 491 research participants. The impact of further neurological opinion regarding these findings resulted in clarification that only 25 cases required further clinical follow-up. This study also highlights that incidental findings are prevalent throughout all age groups. Given that incidental findings could have serious implications for participants' state of mind, as well as health, employment, medical and life insurance^[2], researchers undertaking neuro-imaging studies should be aware that they have an obligation in some, but not all cases, to report incidental findings to the research participants^[2]. This study clearly shows that the number of unnecessary follow-ups can be substantially reduced if both radiological and neurological expertise are available to neuro-imaging based researchers.

References: ^[1]Wolf, S. M., et al. 2008. Managing incidental findings in human subjects research: Analysis and recommendations. *Journal of Law, Medicine and Ethics*, 36, 219-248. ^[2]Illes, J., et al. 2004. Discovery and disclosure of incidental findings in neuroimaging research. *Journal of Magnetic Resonance Imaging*, 20, 743-747. ^[3]Booth, T. C., et al. 2010. Incidental findings found in "healthy" volunteers during imaging performed for research: Current legal and ethical implications. *British Journal of Radiology*, 83, 456-465.



Education Committee Report

Rosemary Fisher R.T.(R)(CT)(MR)
Chair, 2012 Education Committee

"There will be submission information for the 2013 Annual Meeting posted very soon on the SMRT website explaining the application process and program requirements."

Proffered Papers and Posters

There is more to every Annual Meeting than just a full agenda of excellent speakers and presenters which the meeting in Melbourne, Australia certainly had. The opportunity to formally share ideas and activities is represented by the abstract submissions from research and clinical colleagues representing MR work around the world. The Annual Meeting is a remarkable venue to educate and highlight the unique projects and novel procedures that are going on every day in MR. This year, we had a very busy evaluation committee who reviewed over 50 clinical and research submissions presented as either papers or posters. A total of 19 clinical abstracts (8 oral, 11 posters) and 35 research

abstracts (20 oral, 15 posters) were put forth for review this year.

Submissions are evaluated on the organization of the information, background justification and purpose, soundness of the teaching point and methods, and originality. After the Oral Award recipients were determined, the remaining submissions are given the opportunity to resubmit and be scored as a poster. We ultimately scored 10 clinical and 21 research posters in total.

I would like to give my thanks and appreciation to the committee of Abstract Reviewers who reviewed a large amount of very interesting and challenging data. Your time, knowledge and expertise are a very vital part of

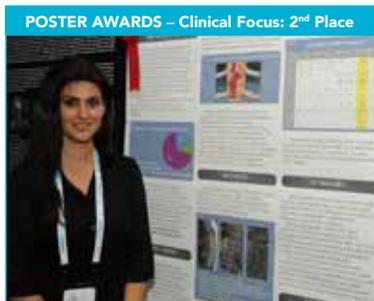
this very successful educational component. Congratulations to all the award recipients and thank you to all the MRI practitioners who submitted their work. Your efforts raise the professional bar of the entire MR community!

Whether you are working on a ground breaking research project or have developed a novel clinical application, I would encourage all of you to start thinking now about a submission for next year's annual meeting. There will be submission information for the 2013 Annual Meeting posted very soon on the SMRT website explaining the application process and program requirements. This information will be available year-round. 

SMRT 2012 Poster Award Presentations



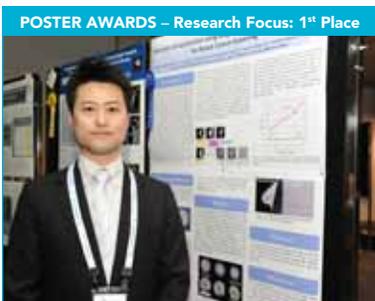
Left: Megan Cromer, BaAppSc (Hons1)
Right: Co-author Sheryl L. Foster, MHSc (MRI)
Westmead Hospital, Sydney, Australia



Sharmeen Maze, R.T.(R)(MR)
St. Joseph's Hospital & Medical Center,
Barrow Neurological Institute,
Phoenix, AZ, USA



Helle Juhl Simonsen, M.R.T.
Functional Imaging Unit, Department of Clinical
Physiology and Nuclear Medicine, Glostrup
Hospital, University of Copenhagen, Denmark



Katsuhiro Kida, R.T., Ph.D.
Japanese Red Cross Okayama Hospital
Okayama, Japan



Yoshiyuki Ishimori, R.T.
Ibaraki Prefectural University of Health Sciences
Ibaraki, Japan



Greg Brown, Adip Rad Tech, Adip Business, FSMRT
Royal Adelaide Hospital, Adelaide, Australia

2012 Proffered Paper and Poster Award Recipients

Oral - Research Focus Paper Award Recipients



1st Place

A Systematic Evaluation of Dual-Source Parallel RF Excitation Methods to Combat Transmit RF Field (B1) Inhomogeneity in Body Magnetic Resonance Imaging at 3.0T

Claudio Arena, R.T. (R)(MR)(CT)
St. Luke's Episcopal Hospital
Houston, TX, USA



2nd Place

Effects of Varying Head/Neck Position on Venous Flow Quantification

Zahid Latif, R.T. (R)(MR)(CT)
Wayne State University
Detroit, MI, USA



3rd Place

T1 & T2 Values of Post-mortem Magnetic Resonance Imaging of the Liver

Tomoya Kobayashi, R.T.
Tsukuba Medical Center Hospital
Tsukuba-shi, Ibaraki-ken, Japan

Oral - Clinical Focus Paper Award Recipients



1st Place

High-Resolution MR Imaging of the Inner Ear with Advanced Post-Processing Algorithms

Frank Stadie, R.T. (MR)
University Hospital Munich
Munich, Germany



2nd Place

3D Dark Blood Cardiac Imaging Using SPACE

Martin Sherriff, B.App.Sc, R.T. (MR)
Alberta Children's Hospital
Calgary, Alberta Canada



3rd Place

T2* Susceptibility Weighted Angiography (SWAN) in the Evaluation of Venous Stasis Associated with Pediatric Hemiplegic Migraine

Mark A. Smith, ABMP, M.S., R.T. (R)(MR)
Nationwide Children's Hospital
Columbus, OH, USA

Research Focus Poster Award Recipients



1st Place

Detection of Calcification using Magnetic Resonance Phase Imaging for Breast Cancer Screening

Katsuhiro Kida, R.T., Ph.D.
Japanese Red Cross Okayama Hospital
Okayama, Japan



2nd Place

Time-Spatial Labeling Inversion Pulse (time-SLIP) Can be Used for Perfusion Imaging

Yoshiyuki Ishimori, R.T.
Ibaraki Prefectural University of Health Sciences
Ibaraki, Japan



3rd Place

Estimating R2*. Method Matters

Greg Brown, Adip Rad Tech, Adip Business, FSMRT
Royal Adelaide Hospital
Adelaide, Australia

Clinical Focus Poster Award Recipients



1st Place

In-vivo MR Imaging of Medtronic Activa Deep Brain Stimulation System

Megan Cromer, BaAppSc (Hons1)
Westmead Hospital
Sydney, Australia



2nd Place

Contrast Enhanced 3D Spinal MRA for Localization of Dural Arteriovenous Fistulas

Sharmeen Maze, R.T.(R)(MR)
St. Joseph's Hospital & Medical Center
Barrow Neurological Institute
Phoenix, AZ, USA



3rd Place

Experience with 3T, 32-Channel Head Coil & Multi Transmit in the Diagnosis of Malignant Melanomas in the Eye

Helle Juhl Simonsen, M.R.T., Functional Imaging Unit, Department of Clinical Physiology and Nuclear Medicine, Glostrup Hospital, University of Copenhagen, Denmark



SMRT/ISMRM Joint Forum: Parametric Mapping of Cartilage

Michael D. Macilquham, B.App.Sc., MHSc (MRI), Joint Forum Committee Co-Chair

"This inter-disciplinary course aimed to use evidence-based techniques to promote quality improvement in patient outcomes in the field of musculoskeletal imaging, focusing on better understanding of cartilage mapping techniques."

History

In 2001, the ISMRM invited the SMRT to collaborate on a joint forum to provide a clinical session during the ISMRM Annual Meeting. This provided an additional clinical session to the agenda of the ISMRM Annual Meeting, as well as showcasing the knowledge of the SMRT and its value as an affiliated section to the parent society, the ISMRM. The Joint Forum is a collaboration between the ISMRM and the SMRT to provide a clinically-oriented educational forum on a topic of interest to members of both organisations, particularly the clinicians who attend the ISMRM meeting. Topic selection and planning is a joint effort by representatives of the ISMRM and the SMRT, and must include an equal or majority number of technologists/radiographers speaking during the program.

Background

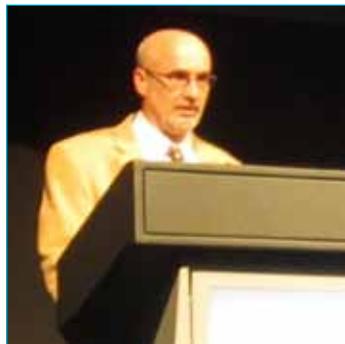


Garry Gold, M.D.

Garry Gold, M.D. and *Michael D. Macilquham, B.App.Sc., MHSc (MRI)* co-chaired the 2012 forum. Morphologic imaging of joint cartilage has long been recognised as a significant benefit

of magnetic resonance technology. However, the role of cartilage parametric mapping techniques in this field is less clearly defined. This inter-disciplinary course aimed to use evidence-based techniques to promote quality improvement in patient outcomes in the field of musculoskeletal imaging, focusing on better understanding of cartilage mapping techniques.

Presenters



Bernard Dardzinski, Ph.D.

Dr. Bernard Dardzinski is a physicist who has long specialised in the science of cartilage. His presentation to the joint forum focused on the physiology of cartilage; namely providing the audience with a background understanding of the types of cartilage, the subdivisions within the layers of cartilage, and then the physiological make-up of cartilage, including a discussion on the deep radial zone, transitional zone and the superficial zone, as well as the proteoglycans and glycoaminoglycans. The audience learned that chondrocytes comprise less than 10% of the cartilage volume, and that water is the most abundant compo-

nent of the cartilage structure. The orientation of the collagen layers within the cartilage was also discussed in relation to both normal and abnormal cartilage.

Imaging has a role in both structural assessment using conventional turbo spin echo sequences, as well as more advanced techniques. Dr. Dardzinski discussed how negatively charged glycoaminoglycans (GAG's) radiate from the protein core within the cartilage matrix, and how this can be assessed using MRI to graphically image the fixed charge density of the GAG content with the delayed gadolinium enhanced technique (dGEMRIC).



Dominic Kennedy, B.App.Sc.

Dominic Kennedy then gave an informative talk on the development of cartilage imaging techniques in his practice, from intermediate TE proton-density weighted structural sequences, to intra-articular arthrography, and then parametric mapping techniques. The particular area of interest that his group has found for cartilage imaging has been in the hip,

both for fit, athletic patients with sports injuries, as well as in a cohort of degenerative hip patients.

Dominic described the importance of exercise to the diagnostic outcome in these studies, particularly to ensure the reproducibility both in terms of mimicking the patients' symptoms, as well as from a diagnostic imaging perspective.

As most magnets are under increasingly greater time demands, it was no surprise that of particular interest to many in the audience was the patient preparation and booking workflow to enable these studies to be performed in a busy site. Dominic showed several nice



Hollis Potter, M.D.

examples of cartilage imaging techniques used in the hip and the clinical impact on diagnosis with these methods.

The final speaker in the forum was [Dr. Hollis Potter](#). Well known to many, Dr. Potter discussed advanced techniques for imaging the articular cartilage in the knee. This included diffusion techniques, quantitative techniques such as T2 mapping, T1 Rho imaging, and laminar analysis using combined structural and quantitative techniques.

Dr. Potter also discussed the role of MRI in assessing surgical repair to the articular cartilage, including various imaging findings in the repair of knee articular cartilage using autologous, allograft and synthetic cartilage repair. The role of

MRI was defined as primarily providing a non-invasive assessment tool to monitor cartilage degeneration in OA, and to monitor disease progression in RA, with some role in assessing and monitoring acute cartilage lesions in athletes. Some quite compelling images showing the regeneration of the cartilage (or lack thereof) using the various techniques left the author with the distinct impression that our articular cartilage is something worth holding on to!

At the conclusion of the presentations, the presenters were invited back on stage to answer several questions from the audience. At the end of the session, most in attendance were left with the impression that whilst perhaps not of use for every single patient, certainly there is a growing role for quantitative cartilage assessment methods in certain patient groups. 

Left to right: Forum participants: Hollis Potter, Bernard Dardzinski, Dominic Kennedy, Gary Gold, Michael Macilquham



Left to right: Dr. George Kolourous, Dr. M. Alex Dresner, Dr. Dardzinski, Ben Kennedy, Wendy Strugnell



SMRT Attendees at the SMRT/ISMRM Joint Forum



Business Meeting Report: Melbourne, Australia

Cindy Higgs, B.H.S., R.T., (R)(MR), FSMRT
SMRT Secretary

"The SMRT will aim to continue to find better ways of increasing value for membership money to build a continually stronger grass roots membership base to protect our society and its long term strategic plans in providing the highest possible level of MR education internationally."

The official SMRT Business meeting, held on Sunday, 6 May during the Annual Meeting, was called to order by **Charles Stanley**, President 2011-2012. During the business meeting, important aspects were shared concerning the financial health of the organization as well as other important issues that surround the mission and vision of the SMRT. Charles also gave the presidential "State of the Society" as well as other major milestones and accomplishments over the past year. He thanked the ANZ Chapter of the SMRT for their outstanding efforts which accomplished having over 500 meeting attendees and the first ever sold out meeting.

The SMRT Officers, Policy Board Members and *ex-officio* members were introduced by Charles Stanley. The outgoing officers and Policy Board members were thanked for their dedica-

tion to the society and efforts displayed over their years of service. The outgoing members are: Executive Member, **Michael Macilquham**; Treasurer, **Ben Kennedy**; Policy Board Members: **Muriel Cockburn**, **Colleen Hammond**, **Carol Lee**, and **Titti Owman**. The newly elected members were presented as: President-Elect, **Ben Kennedy**; Treasurer, **Kirsten Moffat**; and new Policy Board members: **Sheryl Foster**, **Kendra Huber**, **Michael Schlenk** and **Rhonda Walcarius**.

Charles Stanley introduced **Ben Kennedy** for the current Treasurer report to the members. Ben thanked all the donors for their contributions to the jointly held annual meeting between the ANZ Chapter and the SMRT. Donations received were also a record with \$58K in sponsorship. **Ben Kennedy** also reported the following as of 31 March 2012 (see chart at right).



SMRT Outgoing Policy Board Members. Left to right: Past President Julia Lowe, Michael Macilquham, Muriel Cockburn, Titti Owman, Carol Lee

Overall REVENUE expected for 2011-2012

- 8% of the ISMRM corporate sponsorship—\$54,856
- Membership Revenue to date—\$278,554
- Annual Meeting Revenue to date—\$139,394
- Regional Seminars Revenue to date—\$15,580

Overall EXPENSE as of 31 March 2012:

- Administration overhead for SMRT office is budgeted for \$299,000 and as of March 31, 2012 total expense is \$141,679
- Annual meeting expense was budgeted at \$120,250
- Regional Seminars budgeted expenses are \$46,400 with actual at \$13,688 as of March 31, 2012

Summary:

- Our FY 2011-2012 budget has a budgeted net loss of \$32,694
- As of 31 March 2012, our revenue over expenses shows a net revenue of \$277,070
- As of 31 March 2012 the SMRT Statement of Financial Position shows:

Total Net Assets as \$1,764,027

Total Liabilities as (\$1,257,787)

Total Liabilities and Net Assets is \$506,241 (2011—\$452,353)



Treasurer Ben Kennedy reports on the financial status of the SMRT

Ben Kennedy also discussed future strategies of the SMRT for reducing costs such as electronic media options which would enable more funding, provide better value to membership and increase membership. Ben stated, "The SMRT will aim to continue to find better ways of increasing value for membership money to build a continually stronger grass roots membership base to protect our society and its long term strategic plans in providing the highest possible level of MR education internationally." In closing Ben acknowledged the local organizing ANZ chapter and SMRT office for making the Australian meeting a huge success and record breaker for attendance.

Cindy Comeau, External Relations Committee Chair was recognized and gave an External Relations Committee report. Cindy reported the collaboration efforts with the Society of Nuclear Medicine Technologists Section which includes: New Hybrid Scanner PET/MR. The first meeting between the leadership of both organizations was held



External Relations Chair, Cindy Comeau, detailed the recent efforts of her committee

during the June 2011 Society of Nuclear Medicine Meeting where other collaboration opportunities were discussed; such as the consensus white paper being written by a newly formed task force. The task force was charged with inclusion of the following in the white paper: History of Hybrid Imaging, Market Analysis and Educational Program Requirements for entry and advanced levels, Training Challenges, Certification Requirements, Continuing Education Requirements, Staffing Challenges and the importance of Society Modality Specific Collaborations.

The following Task Force was confirmed in October 2011 as:

Cindy Comeau, Co-chair SMRT; David Gilmore, Co-chair SNMTS; Ann Marie Alessi, SNMTS; Maryann Blaine, SMRT; Kathy Hunt, SNMTS; David Jordan, SMRT; Brenda King, SNMTS; Tony Sicignano, SNMTS; Charles Stanley, SMRT; James Timpe, SNMTS.

Cindy recognized **David Gilmore, SNMTS** to address the group. He talked about the white consensus paper for PET-MR and stated the goal was to have the completed paper to both organizations leadership by the end of the summer. He spoke of the challenges that both groups were trying to address such as who would actually run the new scanner and how the entry level and advanced level degree



David Gilmore represented the SNMTS and explained the collaboration between the two organizations

might look. The group has reached some agreements and will continue working on this project.

Charles Stanley outlined accomplishments during his year as President. Some



President Charles Stanley addresses the membership

of these include collaboration with the SNMTS, increased European efforts, and work on the Strategic Plan with a new revised mission and vision statement, increased membership, efforts to move towards more electronic and digital education for members and diligent efforts to reduce costs. A new CEU survey will be introduced to the membership soon in an effort to gain the voice of the members as to what are the priorities of the membership. In closing, Charles thanked the many people that work so hard to make the SMRT successful and to remind all the new officers and board members there is much work to be done.

At this time in the meeting, Charles turned the gavel over to the new incoming President, **Vera Kimbrell**.



Past-President Charles Stanley passes the gavel to President Vera Kimbrell

One of the first duties of the new President was to present outgoing President [Charles Stanley](#) with a plaque recognizing him for his tenure as President. Vera thanked Charles for his efforts as she presented him with the President's gavel plaque.

[Vera Kimbrell](#) proceeded the business meeting by asking if there was any new business or questions from the membership in attendance. There were questions and discussion from the floor regarding Australia's CPD (Continuing Professional Development) registration. [Wendy Strugnell](#) and [Greg Brown](#) gave a brief update on activity they have been involved in on behalf of the ANZ Chapter. They both promised to keep the ANZ members and SMRT abreast of any new developments as they continue to seek information from AIR. Further discussion of CEU documentation was brought up

by meeting attendee, [Michael Cummings](#) from Sydney Adventist Hospital. Wendy reported that future plans of CEU documentation electronically by the SMRT would benefit Australian Radiographers as much as the North American Technologists. Vera remarked she would make this a priority matter during her presidency and would work with the ISMRM office for guidance. She also requested anyone to send her their ideas of enhancing membership benefits.

It was noted that over the course of the weekend meeting, [Greg Brown](#) shared the impressive forums and event venues with other technologist/radiographers all over the world with his SMRT Facebook Group page. Many posts by the readers claimed the meeting an international success while other reader posts longed to be present to share in this "New Era in MR Education."



President Vera Kimbrell begins her leadership of the SMRT

With no further business, [Vera Kimbrell](#) asked for a motion to adjourn the meeting. A motion was made by [Cindy Comeau](#) and seconded by [Michael Macilquham](#). The motion carried unanimously by the members present and the meeting was adjourned. 



Leaders representing the SNMTS and the SMRT. Left to right: Cindy Comeau, Vera Kimbrell, David Gilmore, Charles Stanley



A lighter moment is shared with former Policy Board member Maureen Hood; SMRT Secretary, Cindy Hips; newly elected Policy Board Member, Michael Schlenk; Anne Marie Sawyer, Editor of the Educational Seminar series

President Vera Kimbrell at the podium directs questions from the membership to fellow officers and Policy Board members during the Business Meeting



SMRT POLICY BOARD
2011–2012

Back Row: Left to right:
Betsy Sestina,
Scott Dunn,
Julie Strandt-Peay,
Colleen Hammond,
John Totman,
Barry Southers,
Cindy Hipps.

Middle Row: Left to Right:
Mercedes Pereyra,
Heidi Berns,
Rosemary Fisher,
Anne Marie Sawyer,
Kirsten Moffat,
Helle Juhl Simonsen,
Ben Kennedy,
Glenn Cahoon,
Carol Lee,
Michael Macilquham.

Front Row: Left to Right:
Charles Stanley,
Muriel Cockburn,
Julia Lowe,
Vera Kimbrell,
Titti Owman,
Cindy Comeau



SMRT POLICY BOARD
2012–2013

Back Row: Left to right:
Betsy Sestina,
Scott Dunn,
Julie Strandt-Peay,
Barry Southers,
John Totman,
Cindy Hipps,
Rhonda Walcarius.

Middle Row: Left to Right:
Heidi Berns,
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Michael Schlenk,
Kirsten Moffat,
Helle Juhl Simonsen,
Ben Kennedy,
Glenn Cahoon,
Sheryl Foster.

Front Row: Left to Right:
Charles Stanley,
Mercedes Pereyra,
Anne Marie Sawyer,
Vera Kimbrell,
Cindy Comeau,
Kendra Huber





External Relations Update: SMRT/SNMTS Collaboration

Cindy R. Comeau, B.S., R.T. (N)(MR), FSMRT Chair, External Relations Committee

"The leadership of both organizations agreed to move forward to continue future educational collaboration efforts."

The Society of Nuclear Medicine (SNM) held its 59th annual meeting in sunny Miami Beach, Florida, USA, 9–13 June 2012. Educational planning efforts between the SMRT and the SNMTS began back in 2011 with the introduction of PET/MR scanners. The SMRT co-organized two well received sessions during the Miami meeting for the SNM Technologist Section. On Monday, 11 June, David Gilmore started off the first session speaking about the background of the SMRT and SNMTS collaboration efforts. The session concluded with SMRT External Relations Chair, Cindy Comeau presenting "MR Imaging Applications: An Overview." Her talk showcased the current clinical capability of MR featuring clinical MR images, which with many of the nuclear medicine professionals were quite impressed.

On Tuesday, 12 June the second SMRT session featured William Faulkner sharing his expertise on MR Safety and MR Physics. For Nuclear Medicine technologists this was a very informative lecture, introducing them to the importance of MR Safety as well as an introduction to MR physics. This information was of keen interest to all of the attendees as evidenced by questions from the group. For a second year, Charles Stanley, SMRT Past President was an invited SNMTS speaker at the Miami meeting.

On Tuesday, 12 June the SMRT leadership of Past President, Charles Stanley and External Relations Chair, Cindy Comeau met with the current leadership of the SNMTS which included SNMTS President, Ann Marie Alessi, SNMTS President Elect, Brenda King and the

Director of Leadership Services, Nikki Wenzel-Lamb. Items discussed included the current success of SNM Road Shows with Charles Stanley participating and the planning of the joint sessions at the current meeting. David Gilmore was also present to confer the future of the SMRT/SNMTS Task Force as the consensus paper is ready for review by both Boards. This was exciting news and further discussion on future expansion of the objectives of the Task Force was also conducted. The leadership of both organizations agreed to move forward to continue future educational collaboration efforts.

One additional item to note is that the SNM will now be known as the "Society of Nuclear Medicine and Molecular Imaging" (SNMMI) as this was finalized during the Miami meeting. 

SNMTS Business Meeting attendees



Bill Faulkner presenting to a group of nuclear medicine professionals on Tuesday, 12 June

Left to right: Bill Faulkner; SNMTS President Ann Marie Alessi; SMRT Past President Charles Stanley



Miami Beach was the location of the SNMTS meeting



Left to right: SNMTS President Ann Marie Alessi, (back) SNMTS President Elect Brenda King, SNMTS Past President Kathy Hunt and Cindy Comeau SMRT enjoying the Presidents Reception held on the Biscayne Lady Yacht



Membership Update

Scott Dunn, R.T. (MR)
Chair, Membership Committee

“The enthusiasm for knowledge, for growth, for self-improvement, for taking better - and better - and better still - care of your patients than ever - it is infectious and almost downright palpable with this group in particular.”

The 21st Annual SMRT Meeting in collaboration with the Australia and New Zealand (ANZ) Chapter demonstrated the exemplary enthusiasm and dedication of the SMRT membership and SMRT supporters. The superb quality of this international educational experience, from the first class venue to the thought provoking and pertinent guest speaker presentations, insightful proffered papers and posters and extramural receptions provided a worthwhile occasion for all who traveled to Melbourne.

The SMRT weekend program was sold out for the first time in the 21 year history of the event. This was likely due to the 40% increase in membership from outside North America with the most dramatic increase coming from our hosting nation. The SMRT is truly the preeminent international society for magnetic resonance continuing education for medical imaging technologists. This statement is well substantiated by the comments of our featured speakers who represented institutions from Nottingham, England to Perth, Australia. Support of and appreciation for medical imagers, who ignore the conflicts, minutia and banalities of the day to provide the best care possible to their patients, is offered by *Dr. Emanuel Kanal*,

speaker and a longtime supporter of not only the SMRT, but of all the MR technologists and radiographers stated:

“It is so extremely encouraging to attend SMRT meetings in general, and this past one in Melbourne in conjunction with the ANZ chapter in particular...it was a true pleasure just sitting back and observing you all during and especially following the lectures. The enthusiasm for knowledge, for growth, for self-improvement, for taking better - and better - and better still - care of your patients than ever - it is infectious and almost downright palpable with this group in particular. To those of you who invited me to participate in this year’s activities, thank you. It continues to be a pleasure and an honor to be associated with this group. You are truly professionals—in all senses of the word—yet have never lost your sensitivity and concern to your patients, and your “humanity” in how you approach them comes shining through even in the way you pose your questions to me. And to those of you NOT participating; and who are not yet involved in forums such as this one and the annual meetings, I can only encourage all of you who are involved to continue to reach out to them and help motivate them to become involved.”

“Don’t ever stop being who you are, and never lose sight of the patient behind every single thing that we do. After all, it is THEY who are the ones who create the need for us to be the professionals we strive to be in the first place, and they must always continue to be the target of our professional efforts. My admiration for your society and its membership seems to get stronger each year, and it continues to be an ever increasing honor and privilege to be associated with you all. Thank you for the continued opportunity to do so.”

If Dr. Kanal is describing you or someone you know, don’t just be a member; become an active part of the SMRT. If you have not been able to attend an Annual Meeting, try to attend a regional meeting. If you know someone that wants to be more active in their profession, tell them about the SMRT and show them all we have to offer. While we continue to increase in numbers, so do the avenues of growth.

There is much more to the SMRT than high quality continuing education programs for credits. Being an active partaker in the SMRT identifies you as a MR imaging professional. 

SMRT



For up-to-date membership information, please visit
www.ismrm.org/smrt/membership/membership-information/



Nominations and Awards Invitation

Charles Stanley, B.S., R.T. (R)(CT)(MR), CIIP
Chair, Nominations and Awards

"It is a great service to exercise your right to help in the selection of our leadership and to bestow our most honored award."

Nominations for Policy Board and President-Elect

On behalf of the Nominating Committee, I invite members of the SMRT to nominate individuals for membership of the Policy Board (four positions) and for President-Elect (one position). To be eligible for selection of Policy Board, the nominee must be a member in good standing of the SMRT and have been a member for a minimum of two years. Nominees for President-Elect must also have served on the SMRT Policy Board. Policy Board positions are three year terms which will take effect from the SMRT Annual Business Meeting to be held in 20–21 April 2013 in Salt Lake City, UT, and will conclude at the 2016 Annual Business Meeting. The President-Elect will serve a three-year term as President-Elect, President, and Past President, commencing April, 2013.

The Nomination Process:

Nominations should be submitted directly to me at ctstan@gmail.com or to Jennifer Olson, ISMRM/SMRT Associate Executive Director at Jennifer@ismrm.org. The Bylaws of the SMRT require that nominations be received by 1 September 2012. From the nominations submitted, the Nominating Committee will determine a list of eligible candidates to be placed on a ballot and presented to the membership.

Policy Board

The Policy Board is responsible for ensuring that the SMRT achieves its stated purpose and objectives, for creating SMRT policies, for fund raising, and for managing SMRT funds. The development of future SMRT leaders and the maintenance and supervision of SMRT assets are also Policy Board responsibilities. Election to the Policy Board is undoubtedly a great honor and represents

peer recognition of an individual's contribution and standing in the field. Serving your profession and being involved in shaping the future direction of our society is an extremely rewarding professional endeavor.

However, Policy Board membership entails a serious responsibility to participate actively in Policy Board activities and requires a significant time commitment. Nominees must be prepared to make this commitment for the next three years. It is also advantageous for Policy Board members to have the support of their employer as some commitments such as teleconferences may require flexibility in the workplace.

Generally, an individual who is elected to the Policy Board will have shown a commitment to SMRT activities—such as involvement in SMRT committees, organizing chapter or regional meetings, participating in Annual Meetings by way of proffered papers or as an invited speaker. They are also typically focused on the importance of education for MR technologists and radiographers.

President-Elect

Eligibility for this position requires the individual having already served on the Policy Board and therefore election to the role demands an even greater commitment to the SMRT. The President-Elect serves on the Executive Committee (as well as many other committees) and works closely with the current President and Past President. This structure ensures excellent continuity in the direction and leadership of the SMRT and also provides an opportunity for mentoring the role of President. Qualities required by the nominee are an ability to communicate well, provide leadership of the organization and to work effectively in a group. Election to the position represents

the pinnacle of professional service and is an extremely rewarding endeavor. Nominees must be prepared to make a significant time commitment to the position.

Nominations for Awards

Each year the SMRT recognizes the achievements of those who have made significant contributions to the SMRT and to the MR community. As Chair of the Awards Committee I invite members to submit nominations for the following awards:

Crues-Kressel Award

For outstanding contributions to the education of MR technologists

Fellow of the Section Award

For significant and substantial contributions to the mission of the SMRT and contributions to the development of the Section

Distinguished Service Award

For outstanding contributions and level of effort and service to the Section

Honorary Member Award

In recognition of extraordinary achievement and an exceptional level of service and support for the Section and mission of the SMRT

From the nominations submitted, the Nominating Committee will determine a list of eligible candidates to be placed on a ballot and presented to the Policy Board. The Awards Committee will present nominations for the Crues-Kressel Award to the membership for selection. It is a great service to exercise your right to help in the selection of our leadership and to bestow our most honored award. I look forward to record participation and wish all potential candidates well. 



SMRT Educational Seminars Home Study Program

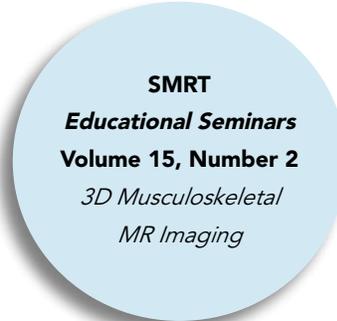
Anne Marie Sawyer, B.S., R.T.(R)(MR), FSMRT
Editor, SMRT Educational Seminars
Home Study Program

"The advantage provided by 3D imaging to reformat into multiple planes, orthogonal and oblique, could lead to a significant reduction in the number of scans that compose the current MR examination."

We are pleased to present the SMRT *Educational Seminars*, Volume 15, Number 2: "3D Musculoskeletal MR Imaging." This is the 56th accredited home study developed by the SMRT, exclusively for SMRT members. The accreditation is conducted by the SMRT acting as a RCEEM (Recognized Continuing Education Evaluation Mechanism) for the ARRT. Category A credits are assigned to each home study, which can be used to maintain one's ARRT advanced registry. SMRT Home Studies are also accredited for AIR (Australian Institute of Radiography) and CPD Now (The College of Radiographers, United Kingdom) Continuing Professional Development (CPD) activities.

Three articles have been selected for this SMRT home study. The first article is a comprehensive review of 3D MR imaging of joints. The second article is a clinical comparison between 2D and 3D Fast Spin Echo imaging of the wrist at 1.5 Tesla. The third and final article is a comparison of 3D MR imaging sequences in the evaluation of cartilage.

As stated by the authors of the first article, "Musculoskeletal MR protocols used at most institutions consist of 2D fast spin-echo sequences repeated in multiple planes. These sequences have excellent tissue contrast and high in-plane spatial resolution. However, they have relatively thick slices and small gaps between slices, which can obscure pathology secondary to partial volume averaging. Three-dimensional sequences can reduce partial volume averaging by acquiring thin, continuous slices through joints." The advantage provided by 3D imaging to reformat into multiple planes,



orthogonal and oblique, could lead to a significant reduction in the number of scans that compose the current MR examination.

The authors of the second article focus more specifically on the challenges of MR imaging of the wrist given its components small size and complexities. "Technological advances in MR scanner technology and MRI pulse sequence design, together with the introduction of high field strength magnets and dedicated surface coils, have led to improved visualization of the intricate anatomic structures in the wrist, thereby increasing diagnostic capabilities. However, the spatial resolution provided by standard two-dimensional (2D) fast spin echo (FSE) sequences is still a significant limitation in the evaluation of complex structures such as the individual components of the TFCC, intercarpal ligaments and articular cartilage." The wrist is an anatomical area that would certainly benefit from the reformatting capability of 3D MR imaging.

The authors of the third article provide a thorough comparison of MR imaging sequences that provide 3D acquisitions in the imaging of cartilage. "With the growth of the aging population, osteoarthritis (OA) has become a public health challenge... ranking as the second leading cause of chronic disability in the USA. Magnetic resonance imaging

(MRI) has emerged as the top modality to image OA, due to its excellent tissue contrast and lack of ionizing radiation. Diagnosis of OA in the knee joint using MRI is most often characterized by diffuse or local thinning of the hyaline cartilage." MR imaging of articular cartilage in the knee seems to be another apparent candidate for 3D acquisition and subsequent reformations.

Many thanks are expressed to [Beth Winningham](#) from Birmingham, AL, for acting as our Expert Reviewer for this home study issue and the accompanying quiz that provides the assigned continuing education credits. Thanks go to [Rhonda Walcarius](#) from Toronto, Ontario, Canada, recently appointed to Chair of the SMRT Publications Committee. Also, thanks to [Heidi Berns, M.S., R.T.\(R\)\(MR\), FSMRT](#), Chair of the SMRT RCEEM Ad-hoc committee from Coralville, IA, and all those who participate on this committee by reviewing the home studies for accreditation. Finally, thanks to Jennifer Olson, Associate Executive Director, Mary Keydash, Publications Director, and the entire staff in the Berkeley, CA, office of the ISMRM and SMRT for their insight and long hours spent supporting these educational symposia.

We would also like to thank [John Wilkie](#) and all of the individuals at [Invivo Corporation \(Philips Healthcare\)](#) who generously support our home studies program. Their continuing investment advances technologist and radiographer knowledge and brings quality continuing education to the SMRT membership worldwide. 



Chapter Chat

Carol Lee, B.S., R.T., (R)(CT)(MR)
Chair, Local Chapter Committee

"I want to thank each and every one of the wonderful people who have volunteered their time and knowledge in making the SMRT what it is today."

The SMRT 21st Annual Meeting has come and gone as we begin another year in our lives as MRI technologists/radiographers. I hope you had the opportunity to attend one of the many wonderful SMRT educational meetings over the recent past.

The South Carolina (SC) Chapter hosted their spring meeting in March and it was a great meeting with many wonderful educational presentations on the latest MR technology and safety. Many attendees left asking when will the next SC educational meeting be scheduled. There were more than 70 attendees and 19 new SMRT members.

The upcoming Chapter-hosted MRI educational seminars are listed below and on the SMRT website; so mark your calendar and please share these dates with your colleagues. Please visit www.ismrm.org/smrt for more information.

Do you wish you had a SMRT Regional Educational Seminar near you? Do you want to be more involved with the SMRT? Do you want to start a SMRT Local

Chapter or host a Regional Educational Seminar. For more information go to the SMRT website: www.ismrm.org/smrt

Did you receive your educational credits in MR or thru another imaging modality? The SMRT is the leading organization in MR education and if you are reading this you probably know this already. If you are unable to attend the many wonderful educational seminars being offered by the SMRT worldwide, many of these topics and talks are now available on our website. As SMRT members and supporters I encourage you to spread the word about what a fantastic organization the SMRT is and the fact that you can NOW receive all your MR education sitting at work or at home on the SMRT website. If you need any additional information about SMRT's educational opportunities, please contact a SMRT Policy Board member or the central office in Berkeley, CA.

As I personally reflect, serving as the President of the SMRT South Carolina

Chapter, the past Chapter Chair and a past Policy Board Member, I want to thank each and every one of the wonderful people who have volunteered their time and knowledge in making the SMRT what it is today. Expended on your behalf are many HOURS of time, BUNCHES of emails, many PROGRAMS with many wonderful SPEAKERS who are MR experts from around the world, many HOME STUDIES and SIGNALS, many TELEPHONE conversions, a few T-Cons, a few tears and some frustration, many GREAT moments and so many individuals working together; along with Jennifer Olson and the SMRT central office, who we could not live without, to make this all possible. I am so proud to be a part of the SMRT and grateful for the educational opportunities and the wonderful colleagues and friends that are all part of the MRI family around the world. Hope to see you at a SMRT educational meeting sometime in the future. S

UPCOMING SMRT REGIONAL SEMINARS. MARK YOUR CALENDAR!

[SMRT Atlanta Local Chapter Educational Seminar](#), 15 September 2012, Atlanta, GA, USA

[SMRT Rocky Mountain Chapter Regional Educational Seminar](#), 15 September 2012, Lafayette, CO, USA

[SMRT Kentucky Local Chapter Educational Seminar](#), 20 October 2012, Covington, KY, USA

[SMRT Northwest Chapter Regional Educational Seminar](#), 27 October 2012, Everett, WA, USA

[SMRT New England Chapter President's Regional Educational Seminar](#), 3–4 November 2012, Salem, MA, USA



Regional Seminars

Betsy Sestina, R.T., (MR)(CT)(M)
Chair, Regional Seminars Committee

"If you do not see a regional in your area listed below, why not step outside your comfort zone and consider hosting a meeting in your area..."

What peaks your MRI interest antenna right now? What are you looking towards in the future regarding your MRI knowledge? Do you want to learn more about the Basics or MRI/PET? Could it be MRI in the Media or how to have a Safe MRI Department? Do your interests cross from MSK to Neuro, or do you look at MRI from Research perspective or is everything in your world 3D these days? Well, no matter what you are looking for, SMRT Regional Educational Meetings will fill the bill.

SMRT was founded on and continues to provide a forum for education, information and research in the field of Magnetic Resonance. As the world becomes more global, the SMRT educational meetings have become more diverse and include a wider variety of topics than ever, and all delivered at the local level.

SMRT regional programs offer an excellent learning venue with local, national and international speakers. Regional educational seminars offer a great way to learn the latest information on current and future MR techniques. I urge you to take advantage of a regional meeting near you. If you do not see a regional in your area listed below, why not step outside your comfort zone and consider hosting a meeting in your area; meet other local technologists and build networks to share information. We are here to help you with all aspects of putting together a great educational meeting. The staff at the Central Office in Berkeley, CA, is available to help make your seminar team shine!

The Regional Seminars Committee is looking forward to working with the local

regional chairs this year and working to create "better than better" (courtesy of *Dr. Kanal*) educational opportunities.

There are opportunities in a variety of geographic areas, already this year. Find one near you and attend! An important part of being a medical professional is being a member of a professional society. The SMRT offers technologists the chance to be a proud member!

If you would like to learn more about hosting a SMRT Regional Educational Seminar, please contact me (betsysestina@comcast.net) or the SMRT central office.

Our active calendar for the year thus far includes the following Regional Educational Seminars (page 32). Make a commitment and attend a meeting near you! 

JOIN SMRT IN SALT LAKE CITY, UTAH, USA, 20-21 APRIL 2013



Salt Lake City, Utah, USA
20-21 April 2013

"Changing the World through MR Education and Innovation"

CALL FOR PAPERS — SMRT Abstract Deadline: 17 December 2012



SMRT Benelux Chapter Seminar

Filip De Ridder, RN(T)
Chair, Benelux Regional Seminar

"In total we hosted 843 participants and 42 speakers over the five SMRT Benelux seminars."

On 17 March our fifth SMRT Benelux meeting was held in Brussels. The meeting was hosted by the radiological department of the Universitair Ziekenhuis, Brussels, and was held in the P. Brouwer Auditorium of the medical facility. We were pleasantly surprised by the good turnout of 168 registered participants from Belgium (62%) and The Netherlands (38%). As usual the day long program was divided into two separate parts: The morning sessions covered an update on safety issues, the afternoon session went on the path of the MRI evolution; starting with MRI history, through current applications and ending with the future.

F. De Ridder, opened the program with a welcome word and the usual announcements. We were very pleased to have *R. Van den Broeck*, Lector Medische Beeldvorming, Hogeschool-Universiteit, Brussels, as the moderator for the day. He did a magnificent job during the seminar.

Peter Van Schuerbeek, Msc, Universitair Ziekenhuis, Brussels, started the morning session with his talk on the European ElectroMagnetic Field (EMF) Directive for working in a MR Environment and SAR, Practical guidelines and global warming prevention of RF burns. We noticed that his presentation was well appreciated by all participants as Peter received many questions about EU Directive and safety matters.

The next speaker, *Mr. Zeijlemaker*, Medtronic, Belgium, gave an interesting presentation about MRI compatible pacemakers. Current guidelines and safety issues were well explained. The last topic in the morning session was provided by *Mr. Y. Fierens, Msc*, Universitair Ziekenhuis Brussel

who talked about imaging parameters and image quality: SNR and CNR were his favorites.

The walking dinner allowed attendees to meet and share ideas and concerns. A brief walk outdoors was refreshing and cleared the mind for the afternoon session. Lunch time was also a good moment to visit the different booths from the sponsors, collecting information as well as a time for networking with colleagues.

After lunch we took a walk on the MRI evolution highway. Beginning in the past by looking at the early years of MRI and ending with today's routines. The next presentation was given by *Mr. Fierens, Msc*, Universitair Ziekenhuis, Brussels, comparing 1.5T versus 3T. Not all facilities have the opportunity to work with a 3T system. The benefits and down sides of 3T were well illustrated. With the next presentation we moved on to even higher field strength. *Dr. Ir. J.J.M. Zwanenburg*, UMC, Utrecht, took us on a discovering voyage at 7T. The meaning of his presentation was related to technical considerations and clinical cases; with an eye for Safety, SNR, Speed and Resolution issues.

The last coffee break of the day was served just in time to stretch the legs and clear the head for the last topics of the day. The program continued with the newest vendor techniques. *J. Michiels, Ph.D.*, Siemens, Belgium started his session with PET MRI. It was interesting to discover how those two techniques are implemented in one device. The last speaker of the day came from Philips, The Netherlands. *I. N. Gipp, M.D., Ph.D.*, spoke about MR-HIFU (MR-guided therapeutic Treatments with High Intensity Focused Ultrasound).

F. De Ridder ended the day with the traditional "Quiz." In total there were ten questions supplied by the speakers.

58% of the registered participants took part in the quiz session. My congratulations to everyone.

Mr. N. Speliers, St. Jan Hospital, Brussels, Belgium, received the 200€ prize. The questions and correct answers are available on the SMRT website: www.ismrm.org/smrt/chapters/BENQuiz2012.pdf

During and after the meeting we received very positive feedback and comments from the attendees, which was quite encouraging. Although it was a long day, everyone felt their time was well spent.

The evaluations submitted at the end of the day indicated that the SMRT Benelux Regional Seminar was a great success, and confirmed the SMRT has a future in the Benelux region.

As this was our fifth annual meeting it was time for a small anniversary celebration; also a good moment to reflect over the past five SMRT Benelux Regional Seminars. In total we hosted 843 participants and 42 speakers over the five SMRT Benelux Seminars. From the evaluation forms submitted, we can conclude that there is a great feeling of satisfaction among the participants.

On behalf of the SMRT I would like to thank our sponsors for their generous support. Also, I would like to thank the colleagues from my hospital for all their hard work. A special thanks to Walter Rijsselaere for his work and support. And last but not least, Jennifer Olson for all her support, advice and help in making this meeting a success, thank you all! 

Associated Sciences Program at RSNA 2012

Associated Sciences Courses

Sponsored by the Associated Sciences Consortium

(This Live activity has been approved for *AMA PRA Category 1 Credit™* and Category A+ credit for technologists)

RSNA® 2012
Patients First

NOVEMBER 25-30 McCORMICK PLACE, CHICAGO

Monday, November 26

MSAS21 8:30AM - 10:00AM

Are You Ready: The Business Case for Cultural Competence—Impact of Health Literacy *(An Interactive Session)*

Ellen Lipman, MS, RT(R)(MR), CAE, *Moderator*
Michael D. Ward, PhD, RT(R), FASRT
Brenda A. Battle, RN, BSN, MBA
Jelena Todic, MSW, LCSW

MSAS22 10:30AM - 12:00PM

Are You Ready: The Business Case for Cultural Competence—Impact of World View *(An Interactive Session)*

Ellen Lipman, MS, RT(R)(MR), CAE, *Moderator*
Michael D. Ward, PhD, RT(R), FASRT
Brenda A. Battle, RN, BSN, MBA
Jelena Todic, MSW, LCSW

MSAS23 1:30PM - 3:00PM

Medical Imaging Radiation Exposure: Origins, Consequences, and Control: Optimization of Radiation Dose *(An Interactive Session)*

David Gilmore, MS, RT(R)(N), *Moderator*
Kathlyn A. Slack, BSc. Hons, DCR(R)
Thomas R. Goodman, MBBChir

MSAS24 3:30PM - 5:00PM

Radiology in the Developing World: Strategies for Improving Global Health *(An Interactive Session)*

Steven P. DeColle, MRT, MR, *Moderator*
Daniel J. Mollura, MD
Ezana M. Azene, MD
Matthew P. Lungren, MD
Ryan H. Sydnor, MD
Kathryn L. Everton, MD
Erica Pollack

Tuesday, November 27

MSAS31 8:30AM - 10:00AM

Maximizing Space Planning in an Era of Diminishing Resources *(An Interactive Session)*

Morris A. Stein, FAIA, FACHA, *Moderator*
Morris A. Stein, FAIA, FACHA
Bill Rostenberg, FAIA, FACHA
Steven C. Horii, MD

MSAS32 10:30AM - 12:00PM

Legal and Creative Marketing: Proven Successes *(An Interactive Session)*

Donna Blakely, MS, RT(R)(M)(CRA), *Moderator*
Peggy Martin, CRA
W. K. Davis Jr, JD

MSAS33 1:30PM - 3:00PM

Creating a Just Patient Safety Culture *(An Interactive Session)*

Emily T. Jackson, RN, MSN, *Moderator*
Karen Buck, RN
Elliot K. Fishman, MD
Beatrice Mudge, ARRT

MSAS34 3:30PM - 5:00PM

Implications of Changing Face of Health Care: Aging and the Shift of Population

Claudia A. Murray, *Co-Moderator*
Cindy R. Comeau, BS, RT *Co-Moderator*
David R. Gruen, MD
Robert M. Kulis

Wednesday, November 28

MSAS41 8:30AM - 10:00AM

Changes in the Scope of Practice: Gaps and Overlaps *(An Interactive Session)*

Steve Vogt, MSRS, RT(R)(MR)(CT)(BD), *Moderator*
Donna L. Long, MSM, RT(R)(M)(QM)
Linda Gough, MRT(R)
Lynne Roy, MBA, MS

MSAS42 10:30AM - 12:00PM Reimbursement Realities *(An Interactive Session)*

Claudia A. Murray, *Moderator*
Thomas W. Greeson, JD
Barbara Rubel, MBA
Melody W. Mulaik, MSHS

Also on Monday:

AAPM/RSNA Basic Physics Lecture for the Radiologic Technologist

Monday, November 26, 1:30PM – 2:45PM Digital Breast Tomosynthesis—Physics and Clinical Considerations

Douglas E. Pfeiffer, MS, *Moderator*
Andrew D.A. Maidment, PhD
Sara C. Gavenonis, MD

RSNA is an ARRT®-approved Recognized Continuing Education Evaluation Mechanism Plus (RCEEM+) and will provide Category A+ continuing education credits for technologists and radiologist assistants.

Registration Information

Registration is required to attend the Associated Sciences programs at RSNA2012.RSNA.org.

Advance discounted registration for the RSNA annual meeting ends November 2, 2012. Register now to get the hotel of your choice.

If you would like a copy of the published Associated Sciences Proceedings, please call 1-877-776-2227.

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- AHRA: The Association for Medical Imaging Management
- American Institute of Architects – Academy of Architecture for Health (AIA-AAH)
- American Society of Radiologic Technologists (ASRT)
- Association for Radiologic & Imaging Nursing (ARIN)
- Association of Educators in Imaging and Radiologic Sciences, Inc (AEIRS)
- Association of Vascular and Interventional Radiographers (AVIR)
- Canadian Association of Medical Radiation Technologists (CAMRT)
- The College of Radiographers (CoR)
- International Society of Radiographers and Radiological Technologists (ISRRT)
- Radiology Business Management Association (RBMA)
- Section for Magnetic Resonance Technologists (SMRT-ISMRM)
- Society of Nuclear Medicine Technologists Section (SNMSTS)

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2012

5–8
September

ISMRM Workshop on MR Safety in Practice: Now & In the Future
Lund, Sweden

15
September

SMRT Atlanta Local Chapter Educational Seminar
Atlanta, GA, USA

15
September

SMRT Rocky Mountain Chapter Regional Educational Seminar
Lafayette, CO, USA

27–30
September

ISMRM–ASNR Co-sponsored Workshop:
Advanced Brain Imaging: “Beyond State-of-the-Art”
McLean, VA, USA

11–14
October

ISMRM Workshop on Perfusion MRI:
Standardization, Beyond CBF & Everyday Clinical Applications
Amsterdam, The Netherlands

20
October

SMRT Kentucky Local Chapter Educational Seminar
Covington, KY, USA

27
October

SMRT Northwest Chapter Regional Educational Seminar
Everett, WA, USA

3–4
November

SMRT New England Chapter President’s Regional Educational Seminar
Salem, MA, USA

2013

3–6
February

ISMRM Workshop on Data Sampling & Image Reconstruction
Sedona, AZ, USA

20–21
April

SMRT 22nd Annual Meeting
Salt Lake City, UT, USA

20–26
April

ISMRM 21st Annual Meeting & Exhibition
Salt Lake City, UT, USA

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