President’s Address

Richard L. Ehman, MD, President

Who Invented CT and MRI?

Computed tomography and magnetic resonance imaging have advanced medicine so profoundly over the last few decades that it is difficult for most physicians to imagine caring for patients without these tools.

Who invented these life-saving technologies? Certainly we can point to Allan Cormack, Godfrey Hounsfield, Paul Lauterbur, and Peter Mansfield, researchers who were awarded well-deserved Nobel prizes for their critical roles in creating these amazing advances.

But that is not the whole story. In reality, CT and MRI have been the focus of intense further innovation since their introduction, creating remarkable new capabilities that go far beyond the original inventions. While industrial research and development has been responsible for much of this progress, many crucial advances were invented and translated by the imaging science community itself. This is particularly true in the field of MRI where the majority of the technical innovations that have so dramatically expanded the modality have been invented by researchers in the imaging science medical community.

And even that is not the full story. When CT and MRI were first introduced, no one (including the original inventors) understood how to interpret the depiction of organs and tissues in these images. Pioneers in the radiology community conducted the early clinical studies that gradually deciphered this information. They invented and translated into practice hundreds of innovative applications that could scarcely have been imagined at the beginning.

In a very real sense, these remarkable diagnostic technologies - as practiced today - were invented by their users: the radiology community. I believe that a time is coming soon when it will be necessary to completely reinvent CT and MRI once again: more on that in my next commentary.
SCBT-MR’s New Website

On December 20, 2013 SCBT-MR launched its new website at www.scbtmr.org. This new system provides increased functionality and flexibility and is adaptable to all mobile devices. SCBT-MR is committed to providing its members access to important resources that will help in and support them in their daily practices. This new website allows us to do this with greater ease. We would appreciate any feedback on how you like using the new site. Please send your comments to Ronni Levine at rlevine@acr.org.

CHECK OUT the NEW website....

► Full Posters from the 2013 Annual Meeting
► View Open Fellowship Listings
► Over 50 CT and MRI Protocols
► Annual Meeting Lectures from 2013, 2012, 2011...
► Archives of the Spotlight Newsletter
► Test your knowledge with our Case of the Quarter
► Video lectures from the 2012 Meeting

2013-2014 Board of Directors

SCBT-MR is pleased to introduce the 2013-2014 Board of Directors:

President - Richard L. Ehman, MD
President-Elect - Neil M. Roifsky, MD
Vice President - Erik K. Paulson, MD
Treasurer - Garry Gold, MD
Secretary - Dushyant V. Sahani, MD
Chief Membership Officer - Susan M. Ascher, MD
Immediate Past President - Leslie E. Quint, MD

Board members were showcased in the Winter 2013 newsletter which can be found by clicking here.

Susan M. Ascher, MD has joined the board in 2014 as Chief Membership Office (Please read her bio on the right)

Susan M. Ascher, MD is a Professor of Radiology at Georgetown University School of Medicine and the Co-Director of Abdominal Imaging at Georgetown University Hospital (GUH). Dr. Ascher graduated from Weill Cornell Medical College and did her Diagnostic Radiology Residency at Yale-New Haven Hospital. After completing an Abdominal Imaging Fellowship at GUH, she joined the Radiology Department. Her clinical duties and research efforts have focused on Gynecologic Imaging.

Dr. Ascher served as a Medical Advisor in the United States Office on Womens’ Health in the Department of Health and Human Services. In that capacity, she helped further development and promotion of Breast MRI. She is also a Fellow of the ISMRM and has been both a panelist and moderator of the RNSA Sunday Unknown Film Panel. Dr. Ascher was a member of the Reproductive Endocrinology Committee that formulated the new American Board of Radiology Core Curriculum Exam. Currently Dr. Ascher is the Women’s Imaging Editor for RadioGraphics and she chairs their Women’s Imaging Educational Exhibit Committee. Dr. Ascher was a Co-Editor of the 20012 RadioGraphics Monograph: Gynecologic Imaging Across the Life Span.
Annual Meeting 2013 Recap

This year’s annual meeting saw over 275 registrants from over 8 countries and 37 different states. It featured 52 expert faculty presenting over 50 lectures focusing on everything from dual energy and dose reduction to politics and structured reporting.

- **Roundtables & Workshops**
  Roundtable and Workshop Discussions - Sunday - Tuesday of the meeting began each day with attendees having the choice of attending either an intimate roundtable discussion or workshop devoted to specialized topics. Participants in roundtables engaged expert facilitators in one-on-one discussion on topics such as Low Radiation Dose CT Protocols, Optimizing the Use of Advanced CT Scanners, Dual Energy CT, and many more.

- **Film Interpretation Panel Discussion** - Two teams competed for film interpretation dominance during the 2nd annual SCBT-MR Film Interpretation Panel Competition. Hosted by moderator Joel Platt, MD, the competition was tougher than our expert panel anticipated and no one team prevailed. There was a TIE between the two teams:
  
  **Team Clanton:** Ike Clanton - Dr. Brian Herts; Johnny Ringo - Dr. Erik Paulson; Calamity Jane - Dr. Ella Kazerooni; and Annie Oakley - Dr. Priya Bhosale
  
  **Team Earp:** Wyatt Earp - Dr. Dushyant Sahani; Virgil Earp - Dr. Ruedi Thoeni; Doc Holliday - Dr. Philip Costello; Josephine Earp - Dr. Aarti Sekhar

- **ePosters and Oral Poster Presentations** - Continuing the tradition started at last year’s meeting, 10 Poster presenters, chosen as finalists by reviewers, gave oral presentations of their posters during a Sunday Oral Poster Session. NEW THIS YEAR - a majority of the posters displayed at the meeting are also now available in full-format on the SCBT-MR website. Ten of the 19 Scientific Session presentations are all available on in-full on the site.

- **Don’t let this happen to you cases**
  Congratulations to Dr. Aarti Sekhar who won the dubious distinction of presenting the case most attendees agreed they never wanted to see. This took place during the “Don’t let this happen to you Case.” Session. 10 Cases were presented. Thank you to moderator Dr. Geoffrey Rubin.
Meet SCBT-MR’s NEW FELLOWS

Dr. Katarzyna Macura, MD

Dr. Macura received her medical degree and PhD in Medical Informatics from the Medical Academy of Lodz in Poland. She engaged in research in the area of artificial intelligence in medicine at the University of Georgia, Athens GA, and subsequently completed her residency training in Diagnostic Radiology at the Medical College of Georgia. She completed fellowship in cross-sectional body imaging at the Johns Hopkins University (JHU), where she currently holds a faculty position in the rank of associate professor in departments of radiology, urology, and oncology.

Dr. Macura’s current clinical research interests are in genitourinary MR imaging. She received the RSNA Seed Grant for her work on MRI in female urinary incontinence and the Young Investigator Award as well as the Cum Laude Award for scientific presentation from the SCBT-MR in 2005. Dr. Macura received the 2006 ARRS Phillips Scholarship to pursue translational research in prostate cancer imaging. She has published over 80 peer-reviewed papers and served as a consultant or collaborator on several federal grants. Dr. Macura leads the Imaging Core of the JHU Institute for Clinical and Translational Research funded through the NIH-CTSA initiative. Dr. Macura received the Outstanding Teacher of the Year Award from the radiology residents at JHU in 2005 and the RSNA Honored Educator Award in 2012.

Dr. Macura was President of the American Association for Women Radiologists in 2005. Currently, she chairs the American College of Radiology Commission for Women and General Diversity and also serves as President of the Maryland Radiological Society.

Dr. Kartik S. Jhaveri, MD, DABR

Dr. Kartik Jhaveri is the Director of Abdominal MRI and Faculty Abdominal Radiologist in the Joint Department of Medical imaging of the University Health Network, Mount Sinai Hospital and Women’s College Hospital as well as Associate Professor at the University of Toronto. He joined the Department of Medical Imaging at University Health Network, Mt. Sinai Hospital and Womens’ College Hospital as Abdominal Imaging faculty in 2002 after his Abdominal MR Research Fellowship at Massachusetts General Hospital and Clinical Abdominal Fellowship at the University of Toronto. He completed his medical school and radiology residency in 1998 from the University of Mumbai. He has focused his clinical and research interest in the field of Abdominal MRI. He regularly lectures nationally and internationally on Abdominal MRI topics including at the RSNA and ISMRM and serves on many North American and International committees for radiology organizations including RSNA, ISMRM, and the Society of Abdominal Radiology. He has focused his clinical and research interests on hepatobiliary and pancreas, renal and rectal diseases. He has authored several peer reviewed publications, book and clinics chapters as well as scientific presentations. He has also served as an Assistant Editor on the Editorial Board of the American Journal of Roentgenology.

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Research Update

The 2013 Annual Meeting saw the presentation of over 55 posters, 10 of which were presented in oral format during the NEW Oral Poster Session. Additionally, 19 Scientific Session presenters spoke on a diverse range of topics during the members-only Scientific Session. Presenters this year included 26 residents, 18 fellows, 23 attending, and 5 designating themselves as “other”. 118 total abstracts were submitted for consideration. SCBT-MR would like to thank the 2013 Research Committee members (Daniel Boll, MD, Chair, Mukesh Harisinghani, MD, Ivan Pedrosa, MD; Edward A. Carter, MD; David P. Mayer, MD; Vikas Kundra, MD; Koenraad Mortele, MD; Matthew Davenport, MD; and Kartik Jhaveri, MD) for their hard work and dedication in identifying abstracts for presentation and helping to determine this year’s Award Winners. New this Year:

- 10 of the 19 Scientific Session presentations are now available in-full PowerPoint format on the SCBT-MR website at: eScientific Session Presentations
- 35 of the 56 posters displayed at the meeting are now available in full poster-format on the SCBT-MR website at: ePosters

Poster Winners 2013:

University of Arizona - Clinton Jokerst

Diffusion Weighted MRI for Staging and Predicting Response in Diffuse Large B-Cell Lymphoma: A Pilot Study

Mayo Clinic - Benjamin Howe

MR Imaging of Perineural Spread of Pelvic Malignancy: A Case-Based Imaging Review

Bridgeport Hospital - Yale University

Shrey K Thawait

A Pattern Approach to Interpretation of Delayed Contrast Enhanced Cardiac MRI for Evaluation of Non-Ischemic Cardiomyopathies
Research Award Winners 2013

Hounsfield Award (CT)

Douglas Larson, MD

CT Dose Variability For Patients Undergoing Repeat Identical CT Scans: A Retrospective Analysis Of 2606 Patients Undergoing 12,632 CT scans

Education:

BS - Brigham Young University (Chemical Engineering); MD - Ohio State University, Columbus, OH; Internship - Riverside Methodist Hospital, Columbus, OH; Residency - Duke University Medical Center (served as Chief Resident); Fellowship - Duke University Medical Center (Abdominal Imaging)

Dr. Larson lives in Durham, NC, with his wife and four children and enjoys running and playing the piano.

Lauterbur Award (MRI)

Matthew S. Davenport, MD

Repeatability of Major Diagnostic Features and Scoring Systems for Hepatocellular Carcinoma Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging

Matthew S. Davenport, M.D. is an assistant professor of Radiology at the University of Michigan Health System. A past recipient of the SCBT-MR Hounsfield award (2011 and 2012) for work on contrast medium extravasations and contrast-induced nephrotoxicity, he has focused his early academic career on contrast medium-related complications (e.g., contrast reactions, CIN, extravasations, premedication, gadoxetate disodium-associated respiratory artifacts). He has been in his current position for over a year and a half and has completed all requirements for a clinical coordinator as well as for research within their lab. Almost daily he interacts with patients, medical student, residents, fellows, and attendings and helps to conduct ongoing research at the same time. He is applying to medical school and hopeful to be starting in the Fall.

Cum Laude

James Costello - Quantitative Measurement of Pulmonary Biomechanics with MRI Lung Volumetry

Kartik Jhaveri - Blood oxygen level-dependent liver MRI: can it predict microvascular invasion in HCC?

Achille Mileto - Dual Energy CT in Hypervascular Liver Lesions: Selection of the Optimal Monochromatic Energy Level with Gemstone Spectral Imaging

Carlo Nicola De Cecco - Dual-Energy First-Pass CT for the Assessment of the Myocardial Blood Supply: Do We Need Rest, Stress, and Delayed Acquisition? A Comparison with SPECT Medical

Young Investigator

Aleksander Krazinski

Reduced Radiation Dose and Improved Diagnostic Image Quality at Cardiovascular CT Angiography by Automated, Individualized X-Ray Tube Voltage Selection: Intra-Individual Comparisons

Aleksander Krazinski received his Bachelor of Arts degree in molecular biology from Skidmore College in Saratoga Springs, New York in 2011. After graduation he worked for the United States Polo Foundation in Atlanta Georgia at a regional polo center, developing the sport of polo by founding new clubs and increasing awareness. After one season, he decided to seek employment that would introduce him to medicine and clinical research with the goal of applying to medical school. He found a position as a clinical research coordinator at the Medical University of South Carolina in the cardiovascular imaging section under the direction of Dr. U. Joseph Schoepf. Mr. Krazinski has been in his current position for over a year and a half and has completed all requirements for a clinical coordinator as well as for research within their lab. Almost daily he interacts with patients, medical student, residents, fellows, and attendings and helps to conduct on-going research at the same time. He is applying to medical school and hopeful to be starting in the Fall.
Case of the Quarter

January 2014

Click on Link Above to view.

2013 Minnies Award Winner
Congratulations to Dr. U. Joseph Schoepf from Medical University of South Carolina for being named Most Influential Radiology Researcher

- Semi-Finalists include:

Most Effective Radiology Educator
Dr. Geoffrey D. Rubin, Duke University
Dr. Michael Steigner, Brigham and Women’s Hospital

2013 RSNA Honored Educator Award
Congratulations to Dr. Evan Spencer Siegelman for this award.

SEND US YOUR MEMBER NEWS!

SCBT-MR Newsletter Team
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Katarzyna Macura, MD, PhD
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Gaurav Khatri, MD
Cecil Wood, MD

SCBT-MR SPOTLIGHT submission deadlines:
WINTER - November 30
SPRING - February 28
SUMMER - May 31
FALL - August 31
Annual Meeting 2014

MARK YOUR CALENDARS

Ritz-Carlton New Orleans
September 26 – October 1, 2014

Sign up here to be notified when registration opens