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The ACADEMY for Radiology & Biomedical Imaging Research

Advancing Innovation in Imaging Science

Academy Symposium

Building the Diagnostic Cockpit of the Future

September 18 - 19, 2017

Bethesda North Marriott Hotel & Conference Center, White Flint Auditorium

Past

Future

Symposium Planning Committee:
Steven E. Seltzer, MD, Chair Emeritus, Department of Radiology, Brigham & Women's Hospital (Committee Chair)

Denis Bergeron, PhD, Research Chemist at National Institute of Standards and Technology (NIST)
Renee L. Cruea, MPA, Executive Director, Academy for Radiology & Biomedical Imaging Research
Christian Eusemann, PhD, Vice President, Collaborations, North America, Siemens Healthcare
Steven Haberlein, Integrated Health Network Manager, Hitachi Medical Systems America Inc.
Elizabeth Krupinski, PhD, Vice-Chair for Research, Emory University School of Medicine
Carolyn C. Meltzer, MD, FACR, Associate Dean for Research, Emory University School of Medicine
Alexander Norbash, MD, Chair and Professor of Radiology, Institute of Engineering In Medicine, UCSD
Neil M. Rofsky, M.D., FACR, Chair of Department of Radiology, UT Southwestern Medical Center
Oliver Steinbach, PhD, Senior Director Clinical Science and Research Programs, Philips Healthcare
Bram Stolk, PhD, MBA, Vice President and General Manager Global Research Organization, GE Healthcare

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Monday, September 18, 2017

7:00 AM	Breakfast buffet	White Flint Auditorium Foyer
7:55 AM	**Welcome and Charge** Welcome	Renee L. Cruea, Executive Director, Academy for Radiology & Biomedical Imaging Research
8:05 AM 8:15 AM 8:25 AM	**The Diagnostic Cockpit** An overview and vision of the Symposium Create the Future 2.0 Cockpit NIBIB's Role with IWGMI NIST's Role with IWGMI	Steven E. Seltzer, MD, Chair Emeritus, Department of Radiology, Brigham & Women's Hospital Roderic I. Pettigrew, PhD., MD, Director, NIBIB Richard R. Cavanagh, PhD, Director of the Special Programs Office, NIST
8:35 AM	**Cockpit Perspectives from the Users** Presentations from the physicians, clinicians and researchers who will be the consumers of the Diagnostic Cockpit. They will define the current state of diagnosis, what is needed or missing and what they would like to see in the future.	Moderator - Sylvain Cardin, PhD, Chief Science Director, U.S. Naval Medical Research Unit, USN, San Antonio, TX
	Oncology Current state of oncological diagnostic and imaging tools; where they are lacking and what is desired.	Robert J. Young, MD, Dir., 3T Neuroradiology Imaging, Memorial Sloan Kettering Hospital; Alice Chen, MD, Head, Early Clin. Trials Dev. Prgm, Developmental Therapeutics Clinic, NIH
	Neurology Imaging is changing the complexities of diagnosing and treating neurological issues; what changes are on the horizon?	David Newman-Toker, MD, PhD, Director, Division of Neuro-Visual & Vestibular Disorders, Johns Hopkins University School of Medicine
	Cardiology Diagnostic power and image-directed surgeries depend on imaging in order to enable extremely complex procedures with less invasive technology.	Mehrbod Som Javadi, MD, Director of Nuclear Medicine, Johns Hopkins Bayview
	Emergency/Catastrophic Emergency rooms and other catastrophic care settings depend on imaging technologies to make critical, time-sensitive diagnosis possible and have changed the face of emergency medicine. What do trauma physicians need in the future?	Sidney R. Hinds II, MD, COL, MC, USA DoD Brain Health Research Program Coordinator, Blast Injury Research Program Coordinating Office, Medical Advisor to the Principal Assistant for Research and Technology United States Army Medical Research and Materiel Command

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	Urology Noninvasive and minimally invasive treatment of urological and gynecological conditions would not be possible without imaging and image-guided technology. Everything from prostate issues to bladder cancer depends on this. What is needed for the next level of urological advancement?	Bryan Traughber, MD, Director of Genitourinary/Gynecological Radiation Oncology at Seidman Cancer Center, University Hospitals of Cleveland
9:45 AM	**Break**	White Flint Auditorium Foyer
10:00 AM	**Cockpit Perspectives from the Crew** During this phase of the program, those currently engaged in the research and implementation side of imaging research and use will share their views including the state of precision diagnostics.	Jill Heemskerk, PhD., Deputy Director, Office of the Director, National Institute of Biomedical Imaging and Bioengineering (NIBIB)
	Pathology Imaging is a critically important component in the pathology ecosystem. Imaging advances will transform pathology functions.	Douglas J. Hartman, MD, Associate Director, Division of Pathology Informatics, University of Pittsburgh Medical Center
	Molecular Diagnostics The many facets of “omics” and the specialties that are contained in this area are crucial to healthcare diagnosis and treatment. What are the requirements of the future.	Jeffrey Alan Golden, MD, Chair, Department of Pathology, Brigham & Women’s Hospital
	Informatics Big data and computer-assisted storage and collection are a critical aspect of healthcare. Everything from health records to research results are affected by this essential infrastructure and the need for harmonization/standardization in quantitative imaging.	Dr. Maojing Fu, Research Scientist, Machine Learning/ Medical Imaging at Big Data Laboratory, Hitachi America

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11:00 AM	**Research funding climate** Follow the money if you want to find success. Dr. Meltzer will explain how the political climate, institutional finances and funding sources drastically affect the ability to conduct effective research.	Carolyn C. Meltzer, MD, FACR, Associate Dean for Research, Emory School of Medicine
11:30 AM	**Workshop orientation - State of the Art** Grupo Fleury, a Brazilian perspective on their experience in creating a similar project that is in full implementation. Interesting comparison to challenges and solutions encountered in diagnostic integration.	Bram Stolk, PhD, MBA, Vice President and General Manager Global Research Organization, GE Healthcare Jeane Tsutsui, MD, PhD, Medical and Technical Executive Director, Grupo Fleury, Brazil
12:00 PM	**Lunch**	White Flint Auditorium Foyer
1:00 PM	**NIST Symposium Report** Standardizing quantitative MRI – from NIST Symposium	Kathryn Keenan, PhD, MRI Research Engineer at National Institute of Standards and Technology (NIST)
1:20 PM	**Focusing on our ultimate goal** Bridging the gap to goal with help from government, academia and industry	Steven E. Seltzer, MD, Chair Emeritus, Department of Radiology, Brigham & Women's Hospital

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1:30 PM	**Breakout Session 1**	
	Cockpit 1 Session A: Improve quality, consistency and access to advanced imaging technologies - Oakley Room	Facilitator: Ruth Carlos, MD, MS, University of Michigan
	Cockpit 1 Session B: Improve quality, consistency and access to advanced imaging technologies - Great Falls Room	Facilitator: Joseph Hutter, MD, MA, LCDR, US Public Health Service, CMS Center for Clinical Standards and Quality
	Cockpit 2 Session A: Threat assessment - White Flint Auditorium	Facilitator: Edward Wack, MS, MIT Lincoln Laboratory
	Cockpit 2 Session B: Threat assessment - White Flint Auditorium	Facilitator: Maren Laughlin, PhD, Program Director, Division of Diabetes, Endocrinology, and Metabolic Diseases, NIDDK
	Cockpit 3 Session A: Target detection - Middlebrook Room	Facilitator: Lori Henderson, PhD, Program Director, Clinical Trials Branch, CIP, NCI, NIH
	Cockpit 3 Session B: Target detection - Timberlawn Room	Facilitator: Gordon McLennan, M.D., Interventional Radiologist, Professor, Diagnostic Radiology at Case Western Reserve University, Case Comprehensive Cancer Center
3:30 PM	**Break**	White Flint Auditorium Foyer
3:45 PM	**Breakout Session 2**	
	Cockpit 4 Session A: Target characterization - Oakley Room	Facilitator: Neil Rofsky, MD, Chair of the Department of Radiology, UT Southwestern Medical Center
	Cockpit 4 Session B: Target characterization - Great Falls Room	Facilitator: Sameer Antani, PhD, Staff Scientist, National Library of Medicine (NLM)
	Cockpit 5 Session A: Target treatment or mitigation - Middlebrook Room	Facilitatory: Alexander Norbash, MD, MS, Chair, Department of Radiology, UCSD
	Cockpit 5 Session B: Target treatment or mitigation - Timberlawn Room	Facilitator: Mark Michalski, MD, Executive Director, BWH Center for Clinical Data Science

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	Cockpit 6 Session A: Physical and IT attributes of the cockpit - White Flint Auditorium	Pina C. Sanelli, MD, MPH, FACR, Associate Professor of Radiology, North Shore–Long Island Jewish Health System
	Cockpit 6 Session B: Physical and IT attributes of the cockpit - White Flint Auditorium	Kyle Myers, PhD, Director, Divison of Imaging, Diagnostics, and Software Reliability, FDA
5:30-7:30 PM	**Reception** Please join us for tasty appetizers, cold drinks and companionship. A great way to meet others who share a common vision and goal.	White Flint Auditorium Foyer
	Dinner is on your own.	

Tuesday, September 19, 2017

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7:00 AM	**Breakfast**	White Flint Auditorium Foyer
8:00 AM	**Plenary Session** Each group will present their report on defining what the Diagnostic Cockpit will look like from their group's specific perspective.	Steven E. Seltzer, MD, Chair Emeritus, Department of Radiology, Brigham & Women's Hospital
	Discussion Synthesis of breakouts: Cockpits 1-3	Group Facilitators
9:30 AM	**Break**	White Flint Auditorium Foyer
9:45 AM	**Discussion** Synthesis of breakouts: Cockpits 4-6	Group Facilitators
11:00 AM	**A summary of what the Diagnostic Cockpit looks like from an industry perspective; a panel discussion**	Panelists: Rich Mather, PhD., President at Toshiba Medical Research Institute, USA; Steven Haberlein, Corporate Development, Integrated Health Networks, Hitachi Healthcare Americas; Oliver Steinbach, PhD, Philips Healthcare; Bram Stolk, PhD, MBA, Vice President and General Manager, GE Healthcare; Christian Eusemann, Vice President, Collaborations, North America, Siemens Healthcare; Moderator: Mitchell Schnall, M.D. PhD, Eugene P. Pendergrass Professor & Chair of Radiology, University of Pennsylvania
11:50 AM	**Action Items** Establish next steps	Steven E. Seltzer, MD, Chair Emeritus, Department of Radiology, Brigham & Women's Hospital Renee L. Cruea, Executive Director, Academy for Radiology & Biomedical Imaging Research
12:00 PM	**Closing Remarks**	Steven E. Seltzer, MD, Chair Emeritus, Department of Radiology, Brigham & Women's Hospital
12:15 PM	**Adjourn**	

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