School of Medicine
University of South Carolina

First Conference on Ultrasound in Anatomy and Physiology Education

Sponsored by the Society of Ultrasound in Medical Education (SUSME)







Thank you for attending

the First Conference on Ultrasound in Anatomy and Physiology Education

Dear Attendee,

Welcome to the First Conference on Ultrasound in Anatomy and Physiology Education sponsored by the Society of Ultrasound in Medical Education (SUSME) and hosted by the University of South Carolina School of Medicine.

As ultrasound becomes more common in medical education, both across the nation and around the world, it is essential that we bring together educators in the disciplines of anatomy and physiology to share experiences and expertise and help set the direction for the appropriate incorporation of ultrasound into medical education. The conference is designed to be of value to educators teaching anatomy or physiology in the health sciences including pre-medical education, medical student education, nursing education, physical therapy education, physician assistant education, and others.

As the host institution for this conference, the University of South Carolina School of Medicine welcomes you to Columbia, S.C. The USC School of Medicine has a rich history of incorporating ultrasound into medical education. USC is presently in its seventh year of a fully integrated ultrasound curriculum across all four years of medical school and hosted the First World Congress on Ultrasound in Medical Education in April 2011.

We hope you find your experience at the First Conference on Ultrasound in Anatomy and Physiology Education to be educational and fulfilling. Thank you for attending and enjoy the southern hospitality of Columbia, S.C.

Mike Blaivas, M.D. Richard Hoppmann, M.D.

President Dean

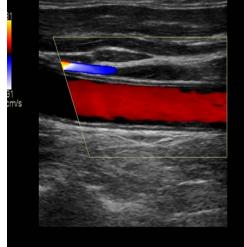
SUSME USC School of Medicine



6:45

8:30 P.M.

7:00 - 8:30 P.M.



McCutchen House

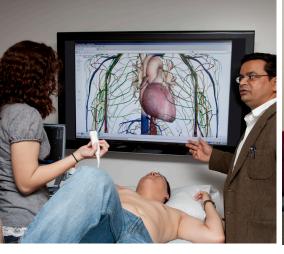
Friday, March 22, 2013 (All events in School of Medicine M2 Classroom)

11:30 A.M./12:15 P.M.	Shuttle departs Springhill Suites Hotel downtown Columbia for	
	School of Medicine	
12:00 - 12:45 P.M.	Registration and Lunch	
12:45 - 1:00 P.M.	Welcome	Michael Blaivas, M.D.
1:00 - 1:30 P.M.	Ultrasound in Medical Education	Richard Hoppmann, M.D.
1:30 - 2:00 P.M.	Evolution of Clinical Anatomy with	Andrew Payer, Ph.D.
	Ultrasonography - Past, Present and Future	
2:00 - 2:15 P.M.	BREAK	
2:15 - 2:45 P.M.	Teaching Physiology with Ultrasound	Britt Wilson, Ph.D.
2:45 - 3:15 P.M.	Thiel Cadavers and Plastination	James Wells, M.D.
		Noel Boaz, Ph.D., M.D.
3:15 - 3:45 P.M.	An Anatomist's View of Ultrasound:	Robert DePhilip, Ph.D.
	See the Same Structures Differently	
3:45 - 4:00 P.M.	BREAK	
4:00 - 5:00 P.M.	Introductory Ultrasound Workshop:	All Faculty
	Neck, Thyroid, Carotid Artery	
5:15 P.M.	Shuttle departs School of Medicine for hote	el

Shuttle departs hotel for McCutchen House

Shuttle departs McCutchen House for hotel

Attendee Dinner





All Faculty

Saturday, March 23, 2013

1:00 - 1:15 P.M.

1:15 - 2:15 P.M.

BREAK

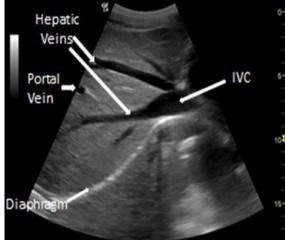
Ultrasound Workshop:

(All events in School of Medicine M2 Classroom unless noted)

7:30 A.M.	Shuttle departs Springhill Suites hotel for School of Medicine		
8:00 - 8:30 A.M.	COFFEE		
8:30 - 8:50 A.M.	Ultrasound Artifacts and Safety Issues	Fred Kremkau, Ph.D.	
8:50 - 9:10 A.M.	3D Anatomy	Shaun Riffle, M.F.A.	
9:10 - 9:30 A.M.	Ultrasound Simulators and Phantoms	Tripp Bell, M.D.	
9:30 - 9:50 A.M.	Ultrasound in Teaching Fetal Development	Richard Goodwin, Ph.D.	
9:50 - 10:00 A.M.	Ultrasound Heart and Lungs		
10:00 - 10:15 A.M.	BREAK		
10:15 - 11:15 A.M.	Ultrasound Workshop:	All Faculty	
	Heart and Lungs (Location: Ultrasound Institute)		
11:15 - 11:30 A.M.	BREAK		
11:30 - 12:00 P.M.	Assessing Student Performance:	Mary Beth Poston, M.D.	
	Standardized Patients and OSCEs		
12:00 - 12:50 P.M.	LUNCH:		
	Initiating an Ultrasound Program from A to Z		
	(Administrative Buy-In, Equipment, Curricular Time,		
	Space Needs and Learning Materials)		
12:50 - 1:00 P.M.	Ultrasound Knee and Liver		

Anatomy of the Knee and Liver (Location: Ultrasound Institute)





Saturday, March 23, 2013

2:15 - 2:30 P.M. BREAK

2:30 - 2:50 P.M. Image Portals, E-learning, Videos Victor Rao, MBBS, DMRD, RDMS

2:50 - 3:50 P.M. Ultrasound Workshop:

Vascular Physiology

Arterial Hemodynamics

3:50 - 4:00 P.M. BREAK

4:00 - 4:45 P.M. Anatomy and Physiology Leadership Panel:

American Association of Anatomists - Jeffrey Laitman, Ph.D.

(Mount Sinai School of Medicine)

of Toronto Faculty of Medicine) and **Brian MacPherson, Ph.D.**

American Association of Clinical Anatomists - Anne Agur, Ph.D. (University

(University of Kentucky College of Medicine)

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American Physiological Society - **J. Michael Wyss, Ph.D.**(University of Alabama at Birmingham School of Medicine)

Human Anatomy and Physiology Society - Valerie O'Loughlin, Ph.D.

(Indiana University School of Medicine) and John Waters, Ph.D.

(Penn State College of Science)

International Association of Medical Science Educators - Bruce Newton, Ph.D.

(University of Arkansas for Medical Sciences College of Medicine)

4:45 - 5:00 P.M. Conference Evaluation

5:15 P.M. Shuttle departs School of Medicine for hotel

Conference Faculty and Speakers



Floyd E. Bell, M.D., "Tripp" is assistant professor in the Department of Radiology at the USC School of Medicine. A graduate of the School of Medicine, he completed a diagnostic radiology residency at University of North Carolina Hospitals in Chapel Hill. He previously worked in private practice for a radiology group in Columbia, S.C. Among his research interests is ultrasound in medical education.



Michael Blaivas, M.D., is recognized as a pioneer in emergency ultrasound. He has published over 140 peer reviewed articles on emergency ultrasound, edited several books and created multiple multi-media educational products. He is active in multiple medical societies and is a founding member of WINFOCUS and SUSME.



Erika L. Blanck, D.P.T., A.T.C., is a research assistant professor in the Department of Cell Biology and Anatomy at the USC School of Medicine. In addition, she is the director of the School of Medicine's Gift of Body program. She is one of the core instructors for the human medical embryology and gross anatomy course taught at the School of Medicine.



Noel Boaz, M.D., Ph.D., is an affiliate research professor of anthropology at Virginia Commonwealth University and for the past two years was a professor of anatomy and the head of medical education at the Libyan International Medical University in Benghazi, Libya. He is president and CEO of the Integrative Centers for Science and Medicine.



Robert M. DePhilip, Ph.D., is associate professor in the Division of Anatomy and the Department of Orthopaedics at the Ohio State University College of Medicine. His interest in ultrasound has paralleled his teaching experiences with the goal of enhancing the anatomical basis for the interpretation of ultrasound images.

Full bios available at www.anatphysus.org



Richard Goodwin, Ph.D., is course director of the medical embryology and gross anatomy class at the USC School of Medicine. In addition to teaching, he also directs an active research lab that investigates the mechanisms of cardiovascular development and disease. He has incorporated several ultrasound technologies into both his research and teaching.



Richard A. Hoppmann, M.D., F.A.C.P., is professor of medicine and dean of the University of South Carolina School of Medicine. He is director of the Ultrasound Institute at USC and principle investigator on multiple ultrasound grants. He is founder and served as the first president of SUSME.



Duncan Howe, Ph.D., has for the past three years served as the Coordinator of Ultrasound Programs at the USC School of Medicine Ultrasound Institute. This has involved development of ultrasound training programs for medical students, residents, rural providers, Free Clinic physicians, and paramedics.



Frederick W. Kremkau, Ph.D., is professor and director of the Program for Medical Ultrasound at Wake Forest University School of Medicine. He has conducted research in ultrasonic molecular absorption mechanisms, acoustic properties of tissue, biological effects of ultrasound, ultrasonic cancer therapy, sonographic artifacts and safety of diagnostic ultrasound.

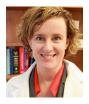


Debra E. Krotish, Ph.D., is the director for research and grants for the Ultrasound Institute at the USC School of Medicine. She also serves as executive director for SeniorSMART, a Center of Economic Excellence for the state of South Carolina. Her main interests are undergraduate medical education in ultrasound.



Andrew F. Payer, Ph.D., is director of the human body structure and function module in the year-one medical curriculum at the University of Central Florida School of Medicine. The curriculum integrates clinical anatomy, embryology, microanatomy, physiology and neuroscience.

Conference Faculty and Speakers



Mary Beth Poston, M.D., is assistant professor of clinical internal medicine at the USC School of Medicine. She is interested in pre-clinical medical student education and is director of the introduction to clinical medicine curriculum. Additional interests include ultrasound in medical education and increasing physical activity in primary care.



Victor Rao, MBBS, DMRD, RDMS, is director of ultrasound education at the USC School of Medicine. He enjoys teaching ultrasound and is currently involved in training medical students, nurse practitioners and physicians in various specialties as well as primary care physicians in diagnostic ultrasound.



Shaun Riffle, M.F.A., is the production manager for the Office of Curricular Affairs and Media Resources at the USC School of Medicine. He joined the School of Medicine in 2000 and currently works with the production of educational films, animations and interactive media that enhances the ultrasound curriculum at the School of Medicine.



James R. Wells, M.D., F.A.C.S., is a research professor in the Department of Cell Biology and Anatomy at the USC School of Medicine. He teaches medical students and surgery residents in clinical otolaryngology at Dorn Veterans Administration Medical Center, where he is the Division Chief.



L. Britt Wilson, Ph.D., is associate professor in the Department of Pharmacology, Physiology and Neuroscience at the USC School of Medicine. He has more than 40 research and educations publications. In addition, he has served as course director for medical physiology at the USC School of Medicine for nine years.

Full bios available at www.anatphysus.org

University of South Carolina School of Medicine

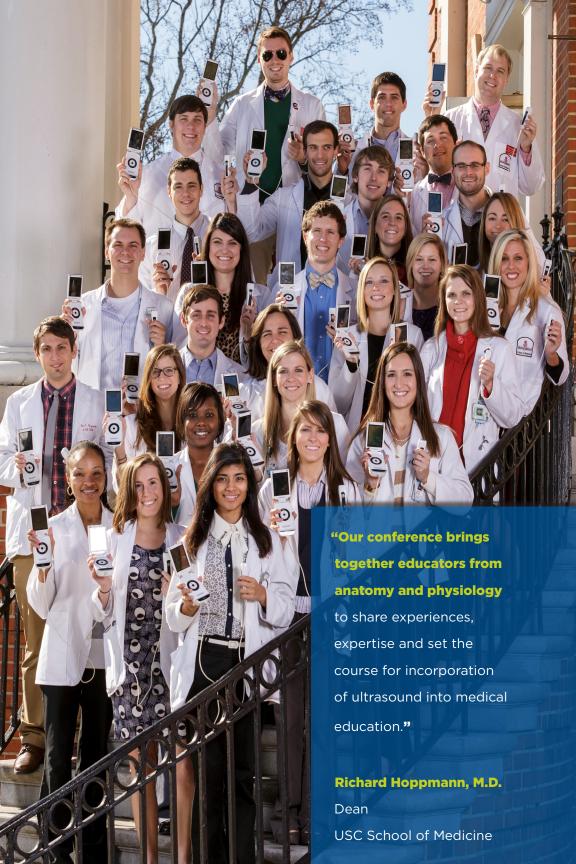
The University of South Carolina School of Medicine was established with the purpose of improving the health of the people of South Carolina through medical education, research and the delivery of health care. The school welcomed its first class of 24 medical students in the fall of 1977.

In the past three decades, the School of Medicine has emerged as a national leader in primary care medicine. Noted for its high-quality medical education, the school provides its students with one-on-one instruction that lasts throughout their medical studies. A distinguished faculty features more than 300 basic scientists and clinicians bringing a variety of academic and research training to medicine.

University Specialty Clinics, the School of Medicine's clinical practice, is the largest health care group in the Midlands of South Carolina. From the Department of Neurology's clinically advanced stroke care to the Department of Family and Preventive Medicine's designation as South Carolina's first Level 3 Patient Centered Medical Home, clinical faculty are providing world-class care in many areas of medicine.

The School of Medicine's basic science campus features fully renovated historic buildings and is located four miles from the University of South Carolina's Columbia campus.







Join us for the Second World Congress on Ultrasound in Medical Education

See, experience and explore one of the most powerful diagnostic devices and its impact on the future of patient care

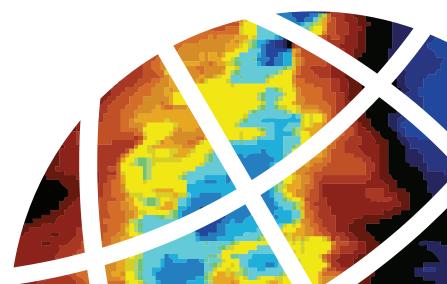
September 27-29, 2013

Columbia Metropolitan Convention Center Columbia, S.C.

Register now by visiting: **www.wcume.org** Early registration specials available

For more information, call (803) 777-9444

Brought to you by the Society of Ultrasound in Medical Education and WINFOCUS. Hosted by the USC School of Medicine.



Conference Notes