## Mayo Clinic Ultrasound Research Center Symposium: Convergence of Waves and Ideas

Saturday, December 16, 2017		
7:30 a.m.	Registration & Breakfast	
8:00 a.m.	Welcome and Introductions	
	Matthew R. Callstrom, M.D., Ph.D., James F. Greenleaf, Ph.D.	
8:15 a.m.	Shear Wave Elastrography of Exercise-Trained Hamstring	
	Muscles	
	Kristin D. Zhao, Ph.D.	
8:30 a.m.	Ultrasound Practice in Maternal-Fetal Medicine	
	Mari Charisse (Charisse) Trinidad, M.D.	
8:45 a.m.	Microbubble Nanoparticle Dual System Conjugated through Click	
	Chemistry for Ultrasound Guided Anti-Cancer Drug Delivery	
	Xifeng Liu, Ph.D.	
9:00 a.m. 9:15 a.m.	CUR Bone Implant Interface	
	Scott A. Mitchell, M.D.	
	Cub Hanta Analysis of Visco Floatisity (CAVE) for Differentiation	
	Sub-Hertz Analysis of ViscoElasticity (SAVE) for Differentiation of Breast Masses	
	Mahdi Bayat, Ph.D.	
9:30 a.m.	Using High-Frequency Ultrasound Imaging to Quantify Drug	
9.50 a.m.	Responses in a Chick Embryo Patient-Derived Xenograft Model of	
	Renal Cell Carcinoma	
	Matthew Lowerison, Ph.D.	
	Timelie W 20 Wellson, I lin2.	
9:45 a.m.	Refreshment Break	
10:00 a.m.	Intramammary and Systemic Imaging Findings of Silicone	
	Deposition	
	Katrina N. Glazebrook, M.B., Ch.B.	
10:15 a.m.	A Preliminary Study of Using Machine Learning to Reduce	
	Biopsies of Thyroid Nodules Based on Ultrasound Images	
	Zeynettin Akkus, Ph.D.	
10:30 a.m.	Robust Ultrasound Super-resolution Microvessel Imaging with	
	Spatiotemporal Nonlocal Means Filtering and Bipartite Graph-	
	Based Microbubble Tracking	
	Pengfei Song, Ph.D.	
10:45 a.m.	A Parameter-Free Approach to Probe Motion Artifacts	
10.43 a.m.	Suppression for In Vivo Imaging with Probe Oscillation Shear	
	Wave Elastography (PROSE)	
	Daniel Mellema, Ph.D.	
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11:00 a.m.	Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, Phantom and In-vivo Experiments Viksit Kumar, Ph.D.
11: 15 a.m.	Attenuation Measuring Ultrasound Shearwave Elastography (AMUSE) Ivan Z. Nenadic, Ph.D
11:30 a.m.	Lunch & Poster Presentations
1:00 p.m.	Evaluation of the Mechanical Properties or Anastomosis in Vascular Grafts and Arterial Models Miguel Bernal Restrepo, Ph.D.
1:15 p.m.	Measurement of Carotid Artery Viscoelasticity in Young and Older Individuals Using Acoustic Radiation Force-Induced Waves and Fourier Analysis Matthew W. Urban, Ph.D.
1:30 p.m.	2-Dimensional Speckle Tracking Echocardiography Predicts Severe Coronary Artery Disease in Women with Normal LV Function Maria C. Arciniegas Calle, M.D.
1:45 p.m.	Shear Wave Elastography on the GE LOGIQ E9 with Comb-push Ultrasound Shear Elastography (CUSE) and Time Aligned Sequential Tracking (TAST) Pengfei Song, Ph.D.
2:00 p.m.	Cardiovascular Elastography Ivan Z. Nenadic, Ph.D., Pengfei Song, Ph.D.
2:15 p.m.	Valvular Involvement in Brucellosis Abolfazl Dohaei
2:30 p.m.	Discussion and Closing Remarks Matthew R. Callstrom, M.D., Ph.D., James F. Greenleaf, Ph.D.
2:45 p.m.	Course Adjourns