

Joint Biomedical Engineering Seminar Series

MU ▪ MCW ▪ UWM

Friday, February 5, 2016

Noon-1pm

Olin Engineering 202

Marquette University

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Medical College of Wisconsin

Abstract

Novel Application of Cardiovascular Magnetic Resonance Imaging Computational Fluid Dynamics Modeling: From Congenital Heart Disease to Acquired Heart Disease

Congenital heart disease affects over 1 million Americans and coronary artery disease afflicts more than 15 million. Risk factors for atherosclerosis begin in childhood. While indirect measures of vascular health exist (i.e. radial tonometry and brachial artery reactivity) computational fluid dynamics modeling can be applied to the study of vascular health, not solely for the study of congenital heart diseases, but also for the study of atherosclerosis. This presentation will discuss the pathophysiology of atherosclerosis and the application of CFD for a better understanding of vascular biology.

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Olin Engineering Center is located at 1515 W. Wisconsin Ave, Milwaukee, WI. Parking is available in Structure 1 on 16th Street between Wisconsin Ave. and Wells Ave. Refreshments will be served.