

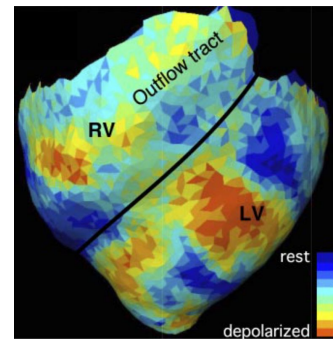
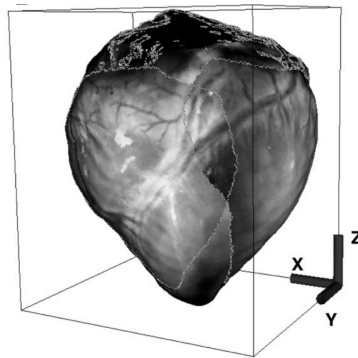
*The Orbeli Physiology Institute invites you to the  
2022 Advanced Bioimaging Seminar series*

## **High speed fluorescence imaging of cardiac physiology**

**Thursday May 26<sup>th</sup> 2022, 5pm**  
Orbeli Physiology Institute Conference room  
Yerevan, 22 Orbeli Brothers street

### **Matthew W Kay, DSc**

*Professor of Biomedical Engineering  
School of Engineering and Applied Sciences  
George Washington University, USA*



**High speed fluorescence imaging** of cardiac tissue, also known as optical mapping, provides detailed spatially resolved assessments of exogenous and endogenous fluorophores that represent cellular processes. This seminar will explain how optical mapping provides unparalleled insight into the electrophysiology, intracellular calcium cycling, and NADH redox state of living cardiac tissues. Applications for studying arrhythmias, excitation contraction coupling, and hypoxia/ischemia will be discussed.

The webinar will be in English, is free and open to the public  
Refreshments will be served