

Thursday, October 10th, 2013

LSC 3 - Life Sciences Centre

2350 Health Sciences Mall

11am-12pm



## Dr. Elliott Chaikof

*Johnson and Johnson Professor of Surgery,*

*Harvard Medical School*

**Chairman,**

*Roberta and Stephen R. Weiner Department of Surgery*

**Surgeon-in-Chief,**

*Beth Israel Deaconess Medical Center,*

*Wyss Institute of Biologically Inspired Engineering of Harvard*

### **“Some Considerations in Coagulation and Its Control”**

Over the past five decades, basic research into the structure of biological macromolecules has begun to deconvolute the structural principles that underlie the unique functionality of biological systems. While this course is far from complete, the information obtained from these studies has enabled the scientific community to gain an understanding of the relevant physical and engineering principles that guide self-assembly of biological systems on nano-, meso-, and macroscopic length scales, as well as the mechanistic features of these complex living systems that work in concert to generate distinctive functional responses in time and space. Our research group utilizes biologically based engineering principles for the design and construction of non-native materials and bioactive drugs. Recent research efforts in areas related to blood coagulation at interfaces and its control will be reviewed.

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