



## “Enhancing Electrode Design with Nanotechnology”

**Dr. John Ferguson**  
University of Minnesota

Wednesday, **March 7, 2012**  
**LECTURE: 9:00 AM - 10:00 AM**

**ENGINEERING CENTER  
ROOM EC 1112  
10555 WEST FLAGLER STREET  
MIAMI, FL 33174**



### **Abstract:**

Advances in nanotechnology allow electrode design to be controlled at the nanoscale, enabling novel device designs and applications. This talk will present the use of new nanofabrication techniques to create nanotextured electrode coatings and nanowire electrodes. The techniques developed can offer significant improvements in the quality of electrode interfaces, overcoming traditional device limitations.

### **Biography**

Dr. John Ferguson is currently a Senior Innovation Fellow at the University of Minnesota Medical Devices Center. He received his Ph.D. in Biomedical Engineering from the University of Minnesota, where he developed novel devices and techniques in the fields of neural engineering, neuroscience, and nanotechnology. He received his bachelor's degree from Caltech and master's degrees from the London School of Economics and from the University of Cambridge. He has also worked with biomedical startups in the US and the UK.

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