




# **From Science Fiction to Real Life Medical Implantable Devices**

ALUMNI ASSOCIATION OF WASHINGTON DC IS PLEASED TO  
INVITE YOU TO AN AFTERNOON OF AN ENJOYABLE JOURNEY INTO THE  
PEAKS OF SCIENTIFIC MARVEL & WORLD OF CUTTING EDGE MEDICAL  
BREAKTHROUGH IN ROBOTICS & IMPLANTABLE DEVICES

COME AND LEARN HOW THESE TWO AVENUES OF SCIENTIFIC ADVANCES  
ARE GOING TO DRAMMATICALLY CHANGE OUR OUTLOOK ON HEALTH  
CARE, DIAGNOSTICS, AND TREATMENT OPTIONS

**ADMISSION IS FREE TO ALL MEMBERS AND STUDENTS**

WHERE: ARLINGTON CENTRAL LIBRARY  
1012 NORTH QUINCY STREET ARLINGTON VA  
WHEN: Sunday April 29, 2012 @ 1:00 PM - 5:00 PM  
QUESTIONS: 

## IMPLANTABLE DEVICES LECTURE BY:

Nathalia Peixoto received her Bachelor's and Master's degrees in Biomedical Engineering from the University of Campinas (Brazil) in 1995 and 1997. Nathalia's Master's thesis focused on experimental models for migraine waves. During her doctoral work Nathalia took part in the German Retina Implant project. She obtained her Ph.D. in Electrical Engineering in 2001 from the University of Sao Paulo, Brazil. Her dissertation was entitled "Neuroelectronic arrays", and aimed at connecting snail neurons to electronic systems. Nathalia continued as a postdoctoral researcher with the University of Washington and Stanford University. Presently she is an Assistant Professor with the Bioengineering Department and a principal investigator of the Krasnow Institute for Advanced Studies at George Mason University in Fairfax, VA. Her research interests include assistive technology, implantable electrodes for neuro-disorders, and brain-computer interfaces.

## MEDICAL ROBOTICS LECTURE BY:

Dr. Muhammad Ali Yousuf earned his Master's degree in Physics from the Abdus Salam International Center for Theoretical Physics in Italy in 1992 and a Ph.D. in Particle Physics in 1997 under the guidance of Dr. Pervaz Hoodbhoy. In 2001 he finished his postdoctoral work at the State University of New York at Albany. From 2001 - 2008 he was a professor of mechatronics and robotics at Monterrey Tech, Mexico. More recently he was a postdoctoral research fellow at the University of Maryland, School of Medicine, where he developed a new device that can treat moving lung tumors in real-time. He is currently working at Johns Hopkins Medicine as a researcher to design medical devices for radiation oncology & robotic surgery.

