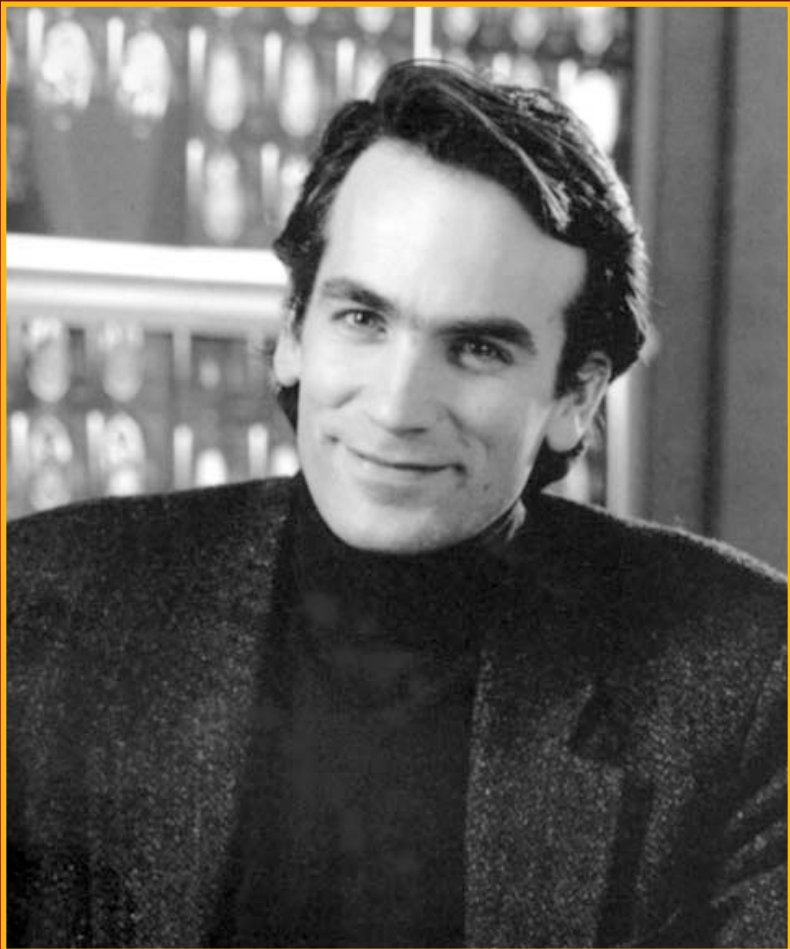


D I S T I N G U I S H E D L E C T U R E

INTERVENTIONAL CARDIOVASCULAR MRI



Elliot R. McVeigh, PhD

Principal Investigator

National Heart, Lung, and Blood Institute

National Institutes of Health

March 19, 2007

3:00 p.m.

Board Room, Mason Hall

Reception immediately following

Dr. Elliot R. McVeigh received his undergraduate degree in Physics (1984) and PhD in Medical Biophysics (1988) both from the University of Toronto. Dr. McVeigh then joined the faculty of Radiology at Johns Hopkins, working with Elias Zerhouni developing a research program in cardiac MRI.

While at Hopkins, Dr. McVeigh developed the Medical Imaging Program in the Department of Biomedical Engineering as part of a Whitaker Development Award.

In 1999, Dr. McVeigh joined the Laboratory of Cardiac Energetics at the NIH in Bethesda to develop a research program in cardiovascular interventional MRI. Dr. McVeigh has mentored over 20 graduate students, published over 150 peer reviewed research papers and over 250 abstracts. He is an inventor on eight patents.

Over the past decade, there has been a small contingent of laboratories developing MRI guided intravascular techniques and applications. While these efforts have followed in the footsteps of MRI guided surgical technologies, intravascular techniques do not carry the requirement for an open access scanner, and hence higher imaging performance during procedures can be achieved. The concept of precise real-time tracking of an active catheter in a standard MRI scanner was fully realized over 15 years ago by Dumoulin and colleagues. Interventional MRI has subsequently developed into the obvious method for delivery of numerous therapies. This talk will address the recent developments and state-of-the-art of a number of aspects of interventional cardiovascular MRI.



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