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"The most exciting aspects of my research are taking technology from the white board to human trials and the potential of these devices to significantly improve therapeutic outcomes in stroke patients."

Biography
 Duncan Maitland has worked as an engineer in aerospace, national defense and biomedical applications since 1985. Prior to his doctoral research he was employed in the aerospace industry for four years where he performed fiber optic sensor research and managed a group developing fly-by-light flight control systems. In 1995 Duncan Maitland received his Ph.D. in Biomedical Engineering from Northwestern University where he studied tissue denaturation kinetics using polarized light. After his Ph.D., he worked at Lawrence Livermore National Laboratory for twelve years where he led the Medical Technology Program. Dr. Maitland has 40 publications and 8 granted patents, has commercialized three medical devices, serves on several NIH study sections and has received peer-reviewed funding from NIH, DOE and NSF. Current research projects include endovascular interventional devices, microactuators, optical therapeutic devices and basic device-body interactions/physics including computational and experimental techniques.

- Keywords**
- [Biomaterials](#)
 - [Laser-tissue interactions](#)
 - [Conventional cardiovascular devices](#)
 - [Image-guided therapies](#)
 - [Computational physics](#)

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 Post doc, Computational Physics, Lawrence Livermore National Laboratory, 1997
 Ph.D., Biomedical Engineering, Northwestern University, 1995
 M.S., Physics, Cleveland State University, 1989
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