

University of Wisconsin–Madison, Physics Department

1998 JULIAN E. MACK LECTURE

***Magnetic Resonance Imaging (MRI):
Historical Notes, Development,
and Future Prospects***

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A brief sketch of the past history of MRI and its technical and physical foundations will be followed by discussion of the current initiatives to bring MRI into the arena of medical treatment.

Technologies will be discussed that will allow MRI to move into the surgical theater so that surgery can be performed inside MRI magnets. The surgical MRI initiative seeks to put to use the exceptional image contrasts created by the tissue NMR relaxations so that they may be harnessed to guide and automate surgical procedures and usher in a new era of high resolution submillimeter surgery.

Friday, April 3, 1998 • 4:00 P.M. • 1300 Sterling Hall