

Joint Biomedical Engineering Seminar Series
MU ▪ MCW ▪ UWM

SEMINAR

Friday, February 10th, 2017

12:00 – 1:00 pm

HRC Auditorium



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“Measurement of Tissue Magnetism Using MRI: Principles and Applications”

Magnetic Resonance Imaging is sensitive to variations in tissue magnetism.

In this seminar, the foundational principles utilized by MRI to utilize tissue magnetism as a diagnostic tool will be reviewed.

Recent "Quantitative Susceptibility Mapping" techniques seeking to quantify changes in tissue magnetism are then introduced and discussed.

Finally, two applications of MRI-based tissue magnetism measurements, neurological QSM changes after sports concussion and tissue metallosis near total hip replacements, are presented.