



Department of Mathematics, Statistics and Computer Science
COLLOQUIUM ANNOUNCEMENT

*Applications in MRI of
Pulmonary Structure and Function*

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3:30 PM, Thursday, November 16, 2017

Cudahy Hall, Room 401

Abstract

Many practical challenges must be overcome to utilize MRI in the lung, however, advancements in hyperpolarized noble gas and ultrashort echo time (UTE) MRI technologies and techniques have led to a number of promising applications in functional and structural lung imaging. This talk will summarize these challenges and how they have been addressed, and will also summarize a few of the major recent contributions of MRI to pulmonary imaging. Two state of the art applications will be presented in more depth: functional imaging metrics of pulmonary gas-exchange in fibrotic lung disease with hyperpolarized Xenon-129, and high resolution structural imaging in the lungs of non-sedated, quiet-breathing neonatal intensive care unit patients using UTE MRI.

1313 W. Wisconsin Avenue, Cudahy Hall, Room 412, Milwaukee, WI 53201-1881

For further information: see <http://www.marquette.edu/mscs/resources-colloquium.shtml>

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***POST COLLOQUIUM* REFRESHMENTS SERVED IN
CUDAHY HALL, ROOM 342 AT 4:30 P.M.**