

# 2013 MINNESOTA WORKSHOP

## Spectroscopy Training Course

### Tentative Schedule

#### Wednesday, October 9, 2013

8:00 am	Registration/Breakfast	
8:30 am	Welcome	Malgorzata Marjanska
8:35 am	Lecture: Introduction to Spectroscopy	Melissa Terpstra
9:15 am	Break	
9:25 am	Lecture: RF Pulses	Michael Garwood
10:10 am	Break	
10:20 am	Lecture: Single Voxel Pulse Sequences	Malgorzata Marjanska
11:00 am	Break	
11:10 am	Lecture: Shimming	Ivan Tkac
11:40 am	Lecture: Spectral Quality	Isabelle Iltis
12:00 pm	Lunch	
1:00 pm	Lecture: GABA Detection and Quantification	Melissa Terpstra
1:30 pm	Lecture: Hot Topics: fMRS	Petr Bednarik
1:50 pm	Break	
2:00 pm	Lecture: Body Spectroscopy: Breast, muscle and marrow	Patrick Bolan
2:30 pm	Lecture: Body Spectroscopy: Spinal cord	Isabelle Iltis
2:45 pm	Break	
3:00 pm	Hands-on: Data Acquisition on Varian 9.4 T Animal Scanner	Ivan Tkac
5:00 pm	Coffee at 10.5 T	

#### Thursday, October 10, 2013

8:00 am	Breakfast	
8:30 am	Hands-on: Data Acquisition on Siemens 7 T/PS Human Scanner	Malgorzata Marjanska
10:30 am	Break	
10:40 am	Lecture: Chemical Shift Imaging	Tom Scheenen
11:10 am	Lecture: Body Spectroscopy: Prostate	Gregory Metzger
11:25 am	Break	
11:35 am	Lecture: $^{13}\text{C}$ Spectroscopy	Pierre-Gilles Henry
12:05 pm	Lunch	
1:00 pm	Lecture: Hot Topics: Hyperpolarized $^{13}\text{C}$	Malgorzata Marjanska
1:15 pm	Lecture: $^{17}\text{O}$ and $^{31}\text{P}$ Spectroscopy	Xiao-Hong Zhu
1:45 pm	Break	
1:55 pm	Lecture and Hands-on: Post-processing	Dinesh Deelchand
3:25 pm	Break	
3:35 pm	Lecture and Hands-on: LCMoDel	Dinesh Deelchand
4:35 pm	Break	
4:45 pm	Q & A Hour	All Faculty
5:45 pm	Adjourn	