

8th BI-ANNUAL 2013 MINNESOTA WORKSHOPS ON HIGH AND ULTRA HIGH FIELD IMAGING

HANDS-ON: MULTICHANNEL TRANSMIT B1 at HIGH FIELD

Faculty (lecture and hands-on sessions) in alphabetic order:

Gregor	Adriany	
Edward J.	Auerbach	
Lance	DelaBarre	
Greg	Metzger	
Jinfeng	Tian	
Sebastian	Schmitter	
Pierre-Francois	Van de Moortele	(Hands-On Coordinator)
Tommy	Vaughan	
Xiaoping	Wu	

...with the exceptional participation of Kamil Ugurbil

WEDNESDAY OCT 9th

8:00 - 9:00am registration + breakfast + welcome (Lobby)

Morning Session: Lectures in SOLARIUM Room #1-134

9:00am - 9:10am	PF Van de Moortele	Introduction
9:10am - 9:30am	Lance DelaBarre	pTX Hardware setup: Whats is it Hard? Where?
9:30am - 9:40am	Eddie Auerbach	The Many Wires of the Many Channels
9:40am - 10:25am	Gregor Adriany	So many RF coils, so many Choices
10:25am-10:40am		break
10:40am-11:00am	PF Van de Moortele	Many-Channel B1 Mapping
11:00am - 11:45am	Xiaoping Wu	Multi-Channel RF Pulse design: Do the Maths, Get the Images
11:45am - 12:00pm	PF Van de Moortele	Q & A
12:00pm-1:00pm		lunch

**Afternoon Session: 7T Experimental Demo of Multi-Channel RF Pulse design
Sebastian Schmitter, Xiaoping Wu, Pierre-Francois Van de Moortele**

1:00pm - 1:15pm	Eddie Auerbach	Multiple Transmit Channel re-configurations:... ...do you know How to Dance?
1:15pm - 4:15pm	7T Scanner Demo (including 15 minutes break)	
5:00pm-6:00pm	Kamil Ugurbil's Coffee and Tour	

THURSDAY OCT 10th

LECTURES in SOLARIUM ROOM #1-134

8:30am-9:00am registration + breakfast + welcome (Lobby)

Morning Session: Lectures in SOLARIUM Room #1-134

9:00am-9:40am	Tommy Vaughan	SAR and High Field Imaging: the Big -and Warm- Picture
9:40am-10:00am	Jinfeng Tian	EM Modelling at High Field: How does that work in practice?
10:00am-10:15am		break
10:15am-11:00pm	Sebastian Schmitter	Multi-Transmit B1 Resources: what is it used for, anyway?
11:00am - 11:40am	PF Van de Moortele	Q & A
11:40am - 12:00pm	Gregor Metzger	Fun Factor: Dynamically Applying Multiple B1 Shim Solutions
12:00pm-1:30pm		lunch

**Afternoon Session: 7T Experimental Demo of Multi-Channel B1 Mapping and B1 Shimming
Sebastian Schmitter, Pierre-Francois Van de Moortele**

1:30pm-5:30pm	7T Scanner demo (including 15 minutes break)	
5:30pm		adjournment