

ESMRMB – Lectures on MR
RF simulation for MR systems: Coil design and safety
August 28-30, 2019
FH Aachen – University of Applied Sciences / DE

Wednesday, 28.8.2019

- 8:00 **Registration & Reception**
- 8:30 **Opening and Introduction**
A. Raaijmakers, A. Bitz
- 8:45 Lecture: **Electromagnetic Theory**
A. Bitz, FH Aachen
- 10:15 Break
- 10:30 Lecture: **Numerical methods**
T. Wittig, CST, Darmstadt
- 12:00 Lunch
- 13:00 **Introduction – Sim4Life**
H. Bousleiman, ZurichMedTech, Zürich
- 13:45 **Introduction – CST Studio Suite**
T. Wittig, CST, Darmstadt
- 14:30 Break
- 14:45 **Practical Exercise 1**
S. Orzada / B. Steensma & Tutors
- 16:15 Break
- 16:30 **Practical Exercise 2**
S. Orzada / B. Steensma & Tutors
- 18:00 Adjourn

Thursday, 29.8.2019

- 8:30 Lecture: **RF coil design**
A. Raaijmakers, UMC Utrecht / TU Eindhoven
- 10:00 Break
- 10:15 Lecture: **Validation methods**
O. Kraff, ELH, Essen

11:15 Break
11:30 Lecture: **RF safety**
C. Collins, NYU, New York
13:00 Lunch
14:00 **Practical Exercise 3**
S. Orzada / B. Steensma & Tutors
15:30 Break
15:45 **Practical Exercise 4**
S. Orzada / B. Steensma & Tutors
17:15 Adjourn
19:00 Social event

Friday, 30.8.2019 8:30

Lecture: **RF safety - Regulatory perspective**
Manuel Murbach, IT'IS, Zürich
10:00 Break
10:15 Lecture: **Implant safety**
J. Tokaya, UMC Utrecht
11:45 Lunch
12:45 **Practical Exercise 5**
S. Orzada / B. Steensma & Tutors
14:15 Break
14:30 **Practical Exercise 6**
S. Orzada / B. Steensma & Tutors
16:00 Adjourn