



Provisional Programme Advanced Imaging for Physicists

Leiden, the Netherlands, 13 – 17 September, 2015

Sunday, September 13, 2013

08.30 – 09.20 Welcome and introduction (Uulke van der Heide, NL)
09.20 – 10.10 MRI Physics: basic principles (Eirik Malinen, NO)
10.10 – 10.30 Coffee break
10.30 – 11.20 MRI physics: contrast formation Tufve Nyholm, SE)
11.20 – 12.10 MRI physics: space encoding (Gary Liney, UK)
12.10 – 12.40 Questions and Answers (plenary) (MR physics)
12.40 – 13.40 Lunch
13.40 – 14.30 MRI Physics: equipment (Gary Liney, UK)
14.30 – 15.10 PET physics: basic principles (Daniela Thorwarth, DE)
15.10 – 15.40 Coffee break
15.40 – 17.30 CASE/ASSIGNMENT

Monday, September 14, 2012

08.30 – 09.20 MRI geometrical artifacts I (Uulke van der Heide, NL)
09.20 – 10.10 MRI geometrical artifacts II (Uulke van der Heide, NL)
10.10 – 10.30 Coffee break
10.30 – 11.20 PET physics: image reconstruction, contouring (Daniela Thorwarth, DE)
11.20 – 12.10 Applications: MRI in brain (Cynthia Ménard, CA)
12.10 – 12.40 Questions and Answers (plenary) (MR physics)
12.40 – 13.40 Lunch
13.40 – 14.30 Functional techniques in MRI (Gary Liney)
14.30 – 15.10 Applications: MRI in gynaecology RT (Piet Dirix, BE)
15.10 – 15.40 Coffee break
15.40 – 17.30 CASE/ASSIGNMENT

Tuesday, September 15, 2012

08.30 – 09.20 CT physics and advanced applications (Koos Geleijns, NL)
09.20 – 10.10 CT physics 3D and 4D imaging (Koos Geleijns, NL)
10.10 – 10.30 Coffee break
10.30 – 11.20 Applications: MRI in prostate (Cynthia Ménard, CA)
11.20 – 12.10 Applications: MRI-guided radiotherapy for head-neck cancer (Piet Dirix, BE)
12.10 – 12.40 Questions and Answers (plenary)
Free afternoon

Wednesday, September 16, 2012

08.30 – 09.20 PET tracers and applications (Daniela Thorwarth, DE)
09.20 – 10.10 Guidelines for PET imaging in Radiotherapy (Daniela Thorwarth, DE)
10.10 – 10.30 Coffee break
10.30 – 11.20 Dynamic PET and CT imaging (Eirik Malinen, NO)
11:20 – 12:10 MR safety (Tufve Nyholm)
12.10 – 12.40 Questions and Answers (plenary) (PET)

12.40 – 13.40 Lunch

13.40 – 14.30 MRI physics: fast scanning, volume sequences (Gary Liney, UK)

14.30 – 16.30 parallel discussion sessions with the faculty

16.30 – 16.40 break

16.40 – 17.30 PRESENTATIONS CASE ASSIGNMENTS

Thursday, September 17, 2012

09.00 – 09.50 In-room imaging with cone-beam CT and MRI (Tufve Nyholm, SE)

09.50 – 10.40 Applications: CT and PET for radiotherapy of lung cancer (Uulke van der Heide, NL)

10.40 – 11.00 Coffee break

11:00 – 12.40 PRESENTATIONS CASE ASSIGNMENTS

12.40 – 13:00 Short evaluation of the course and closing