

Tuesday, February 28, 2017

10:30 – 10:45	Registration	OPG 7-114
10:45 – 11:00	Introduction to the Course Marco Carlone PhD, Bern Norrlinger	
11:00 – 11:10	Welcome David Jaffray PhD	
11:10 – 11:55	Motivation for Advanced Imaging Systems on Linear Accelerators David Jaffray PhD	
11:55 – 12:00	Discussion	
12:00 – 1:15	LUNCH	OPG 7th Floor Atrium

Session 1: Linear Accelerator Technology

1:15 – 1:40	Introduction to ATec Marco Carlone PhD	OPG 7-114
1:40 – 1:45	Discussion	
1:45 – 2:30	Group Discussion – Review of Background Material Marco Carlone PhD, Bern Norrlinger	
2:30 – 3:20	Microwave Devices Marco Carlone PhD	
3:20 – 3:55	High Voltage Modulator Bern Norrlinger	
3:55 – 4:00	Discussion	
4:00 - 4:15	<i>BREAK: Please take all personal belongings from the meeting room; refreshments will be at Princess Margaret Skills Lab</i>	
4:15 – 5:45	Lab #1: Beam Output Marco Carlone PhD, Bern Norrlinger	PM 2B Skills Lab
5:45	END OF DAY	
6:00	Social Event	Duke's Refresher Bar 382 Yonge St

Wednesday, March 1, 2017

8:30 – 9:00

*Sign In**OPG 7-114*

Session 1 (cont'd): Linear Accelerator Technology

9:00 – 9:10

Overview for the Day

Marco Carlone PhD, Bern Norrlinger

9:10 – 9:55

Accelerator Beam Control

Bern Norrlinger

9:55 – 10:15

Synchronization Pulse

Bern Norrlinger

10:15 – 10:25

Discussion

10:25 – 10:40

BREAK

10:40 – 11:25

Multileaf Collimators & Dynamic Beam Delivery

Bern Norrlinger

11:25 – 11:30

Discussion

11:30 – 12:10

Beam Steering

Andrea McNiven PhD

12:10 – 12:15

Discussion

12:15 – 1:00

LUNCH:*Please take all personal belongings from the meeting room**OPG 7th Floor Atrium*

1:00 – 3:00

Lab #2: Finding Beam

Marco Carlone PhD, Bern Norrlinger

PM 2B Skills Lab

3:00 – 3:15

BREAK*PM 1B Red Room*

3:15 – 3:45

Standard Imaging Equipment as Accessories to Medical Linacs

Jean-Pierre Bissonnette PhD

3:45 – 4:35

2D Imaging Principles

Jean-Pierre Bissonnette PhD

4:35 – 4:40

Discussion

4:40 – 5:30

Good Practices for Service Groups

Bern Norrlinger

5:30 – 5:35

Discussion

5:35 – 6:00

MRgRT Tour – Teodor Stanescu PhD

6:00

END OF DAY

Thursday, March 2, 2017

8:30 – 9:00 **Sign In** **PM 1B Red Room**

Session 1 (cont'd): Linear Accelerator Technology

9:00 – 9:10 **Recap**
Marco Carlone PhD, Bern Norrlinger

9:10 – 9:30 **Advanced Topic: Vacuum Systems**
George Parsons

9:30 – 10:30 **Demonstration: Basic Vacuum Practice, Roughing Pumps, Leak Detection**
George Parsons

10:30 – 10:45 **BREAK**

Session 2: Linac-Based Imaging (IGRT)

10:45 – 12:25 **Lab #3: Beam Steering** **PM 2B Skills Lab**
Marco Carlone PhD, Bern Norrlinger

12:25 – 1:25 **LUNCH** **PM 1B Red Room**

1:25 – 2:15 **Safety with Medical Devices in Canada**
Stephen Breen PhD, Marco Carlone PhD

Session 3: Quality & Safety

Session Moderator: Dr. Stephen Breen PhD

2:15 – 3:00 **Accelerator Safety**
Carlos Varon P.Eng

3:00 – 4:00 **Radiation Safety**
Raina Park

4:00 – 4:05 **Discussion**

4:05 – 4:35 **Patient Safety**
Murray Rice

4:35 – 5:20 **Quality Management: Responsibility for Holders of a Service License**
Frank Tourneur

5:20 – 5:25 **Discussion**

5:30 **END OF DAY**

Friday, March 3, 2017

8:30 – 9:00

*Sign In**PM 1B Red Room*

Session 2 (cont'd) Linac-Based Imaging (IGRT)

9:00 – 9:40

3D Imaging Principles

Doug Moseley PhD

9:40 – 9:45

Discussion

9:45 – 10:30

Image Troubleshooting

Doug Moseley PhD

10:30 – 10:35

Discussion

10:35 – 10:50

BREAK

10:50 – 11:25

kV Beam Generation

Carlos Varon P. Eng

11:25 – 11:30

Discussion

11:30 – 12:35

Image Viewing & Evaluation Lab

Doug Moseley PhD

PM 2B Skills Lab

12:35 – 1:20

LUNCH*PM 1B Red Room*

1:20 – 1:55

Water Systems

George Parsons

1:55 – 2:00

Discussion

Session 4: Panel Discussion

2:00 – 2:45

Linac Archaeology – Using the past to explain the present and foretell the future (maybe)

Malcolm McEwen PhD

2:45 – 2:55

Discussion

2:55 – 3:10

BREAK

3:10 – 4:40

Panel Discussion**Moderator: Andrea McNiven PhD**

Discussants: Marco Carlone, Bern Norrlinger, Malcolm McEwen PhD

4:40 – 4:50

Course Wrap Up and Evaluation

5:00

END OF COURSE