

Radiation Therapy Physics Review Course

Seattle, WA

First Day: Saturday, July 23, 2005

7:30 Registration: Coffee and Continental Breakfast

8:00 Radiation Protection in Radiotherapy
Arthur L. Boyer

8:55 Anatomy and Imaging for 3-D Treatment Planning with Applications to Parotid,
Pancreas and Prostate
Arthur L. Boyer

9:55 - 10:10 Coffee break

10:10 Electron and Photon Interactions in Water and Tissue
Paul M. DeLuca

11:05 Nuclear Physics in Radiotherapy, also Heavy Particle Therapy Beams
Gary Luxton

11:55 - 1:15 Lunch break

1:15 Radiation Generators for External Beam Radiotherapy
Peter J. Biggs

2:05 Radiation Measurement in Radiation Therapy
C-M Charlie Ma

2:55 - 3 :05 Coffee break

3:05 Treatment Planning: Clinical Electrons
John A. Antolak

3:55 Shielding for Megavoltage Therapy Machines
Peter J. Biggs

4:45 - 4:55 Coffee break

4:55 Computer-Controlled Delivery of External Beam Radiotherapy
Benedick A. Fraass

5:50 End of Session

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Second Day: Sunday July 24, 2005

7:30 Coffee and Continental Breakfast

8:00 Treatment Planning with Clinical X-rays: Fundamentals
Colin G. Orton

8:55 Treatment Planning with Clinical X-rays: Dose-volume and Radiobiological
Modeling Considerations
Colin G. Orton

9:50 - 10:05

Coffee break

10:05 Brachytherapy Sources: Dosimetry and Source Strength Specifications
Jeffrey F. Williamson

11:00 Brachytherapy Treatment Planning
Bruce A. Thomadsen

12:00 Course ends