

# Molecular Imaging and Intensity Modulation in Radiation Therapy

## **SEAAPM Spring Symposium**

Chester R. Ramsey, Ph.D. Director

**May 1-3, 2002**

*Holiday Inn Select, Cedar Bluffs*

*Knoxville, Tennessee*

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***Radiological Imaging Technology,  
Inc.***

***Varian Oncology Systems***

## Symposium Schedule Wednesday, May 1, 2002

11:30 AM– 1:00 PM	<b>Registration</b>	
1:00PM-1:15PM	Welcome, Announcements, and Symposium Overview	Chester R. Ramsey
1:15 PM- 1:30PM	Molecular Imaging Overview	J. Daniel Bourland
1:30 PM-2:15PM	Advances in PET detector technology - New Scintillators - Solid State Detectors - Depth of Interaction	Michael E. Casey
2:15 PM- 3:00PM	3D Pet Imaging - Accurate for Quantitation - Recent Improvements in Reconstruction - Future System Designs	Thomas Bruckbauer
<b>3:00 PM-3:15 PM</b>	<b><i>Afternoon Break in Commercial Exhibit Area</i></b>	
3:15 PM- 4:00 PM	CT-PET Design and Capability  - History of CT-PET  - University of Pittsburgh Experience	David Townsend
4:00 PM- 4:45 PM	CT –PET Clinical Applications - General Oncology Applications - Radiation Oncology Applications	Jeffrey T. Yap
4:45 PM- 5:15 PM	CT-PET Summary  - IMRT Applications - Future Applications	J. Daniel Bourland
5:15 PM – 5:30 PM	Panel Discussion	
<b>7:00 PM – 9:00 PM</b>	<b><i>Icebreaker Reception</i></b> (Sponsored by Computerized Medical Systems, Inc.)	

Thursday, May 2, 2002

8:30 AM– 9:00 AM	<b>Continental Breakfast</b> (Sponsored by Philips Oncology Systems)	
9:00AM-9:30 AM	Review of IMRT Delivery Techniques - Multiple Static Segment - Dynamic - Tomotherapy	Daniel Chase
9:30AM-10:15 AM	General MLC Quality Assurance - Leaf Calibration - Skew and Gravitation Sag	Chester R. Ramsey
10:15AM-10:30 AM	<b>Morning Break in Commercial Exhibit Area</b> (Sponsored by TomoTherapy, Inc.)	
10:30 AM-11:15 AM	IMRT MLC Quality Assurance - MLC Motor Performance - Dynamic Tolerances	Chester R. Ramsey
11:15 AM-12:00 PM	Additional Linear Accelerator Quality Assurance - Small Segment Dosimetry - Dynamic Feed-Back	Chester R. Ramsey
<b>12:00PM-1:00PM</b>	<b>Lunch Break</b>	
1:00PM-2:00PM	Film Dosimetry	Robert Poling
2:00PM-2:45PM	IMRT Patient-Specific Quality Assurance - Dosimetric Verification - Positional Verification	Daniel Chase
<b>2:45PM- 3:00PM</b>	<b>Afternoon Break in Commercial Exhibit Area</b> (Sponsored by Siemens Oncology Care Systems, Inc.)	
3:00PM-4:00PM	Organ Motion and Setup Error	Chester R. Ramsey
4:00PM-5:00PM	IMRT Billing and Reimbursement	Chester R. Ramsey
5:30PM-8:30PM	IMRT Hands-On Exercises - Film Dosimetry - Patient Immobilization - Inverse Planning - IMRT MLC Quality Assurance.	Chester R. Ramsey Daniel Chase

Friday, May 3, 2002

8:30 AM– 9:00 AM	<b>Continental Breakfast</b>	
9:00AM-12:00 PM	PET Hands-On Exercises ALSO Commercial Exhibits Open	Chester R. Ramsey Robert Poling Michael E. Casey