

**Ohio River Valley and Penn-Ohio Chapters of the
AAPM**

2009 Fall Symposium

**Quality Assurance and Other Challenges
in State of the Art Radiation Therapy**



Oct. 2nd - 3rd

2009

Columbus, Ohio



Ohio River Valley and Penn-Ohio Chapters

Fall Symposium Agenda

Friday, October 2nd, 2009

| | |
|----------------------|---|
| 11:00 am to 12:00pm | Vendor Setup |
| 12:00 pm to 12:50 pm | Check-In / On-Site Registration |
| 12:50 pm to 1:00 pm | Welcome and Opening Remarks Greg Bednarz, Ph.D. President-Elect, Penn-Ohio Chapter, University of Pittsburg Cancer Institute |
| 1:00 pm to 1:50 pm | Invited Talk: Application of risk-based analysis methods to radiotherapy quality management M. Saiful Huq, Ph.D. University of Pittsburg Cancer Institute |
| 1:50 pm to 2:40 pm | Invited Talk: A Priori Determination of Dose Uncertainties in IMRT Planning and Delivery Jatinder Palta, Ph.D. University of Florida Health Science Center Talk Sponsored by Varian Medical Systems |
| 2:40 pm to 3:10 pm | Vendor Sponsored Technical Talk/BrainLab Commissioning and clinical use of the Novalis TX for SRS and SBRT treatments Indrin Chetty, Ph. D. Henry Ford Hospital |
| 3:10 pm to 3:55 pm | Coffee Break/Vendor Exhibits |
| 3:55 pm to 4:45 pm | Invited Talk: Transitioning from 3D IMRT to 4D IMRT and Role of Image-Guidance Ping Xia, Ph.D. Cleveland Clinic Foundation |
| 4:45 pm to 5:15 pm | Vendor Sponsored Technical Talk Optically Stimulated Luminescence (OSL) Dosimetry in Medical Physics Clifford J. Yahnke, Ph.D. Landauer, Inc. |
| 5:15 pm to 5:30 pm | Improvement of 4D PET using deformable image registration. Darek Michalski, Ph.D. University of Pittsburgh Cancer Institute, Penn-Ohio Chapter |
| 5:30 pm to 5:45 pm | Dosimetric effect of intrafraction tumor motion on gated lung SBRT Bo Zhao, Ph.D. University of Pittsburgh Cancer Institute, Penn-Ohio Chapter |
| 5:45 pm to 6:00 pm | Acceptance and Commissioning of a Novel Ionizing Radiation Emitting Isotope Hospital Detection and Notification System Suitable for Use in Radiation Counter-Terrorism. Kim Jong, Ph.D. University of Pittsburgh Cancer Institute, Penn-Ohio Chapter |
| 6:00 pm to 7:00 pm | Drinks/Snacks at Vendor Exhibits / followed by a dinner at Tony's Italian Ristorante (optional) |



Ohio River Valley and Penn-Ohio Chapters

| Saturday, October 3 rd , 2009 | |
|--|---|
| 7:00 am to 8:00 am | Continental Breakfast |
| 8:00 am to 8:10 am | Welcome and Opening Remarks Jian Wang, Ph.D. President-Elect, Ohio River Valley Chapter Ohio State University, James Cancer Hospital |
| 8:10 am to 9:00 am | Invited Talk: The failure mode and effects analysis for IGRT – the patient factor. Lei Dong, Ph.D. UT MD Anderson Cancer Center |
| 9:00 am to 9:15 am | Dosimetric evaluation of inter-fractional setup uncertainty on prostate treatment in proton therapy Li Zhao, Ph.D. Midwest Proton Radiotherapy Institute, Ohio River Valley Chapter. |
| 9:15 am to 9:30 am | International calibration survey of the Leksell Gamma Knife small radiosurgery fields – project design and first results Josef Novotny, Ph.D. University of Pittsburgh Cancer Institute, Penn-Ohio Chapter |
| 9:30 am to 9:45 am | Onset time of tumor repopulation for cervical cancer – first evidence from clinical data. Zhibin Huang, Ph.D. Ohio State University, Ohio River Valley Chapter |
| 9:45 am to 10:30 am | Coffee Break/ Vendor Exhibits |
| 10:30 am to 11:20 am | Invited Talk: Closing the loop of IMRT/IMAT QA: dose reconstruction based on treatment cone-beam CT. Lei Xing, Ph.D. Stanford University School of Medicine |
| 11:20 am to 11:35 am | AAPM New Professionals Subcommittee Minsong Cao, Ph.D. Indiana University School of Medicine Ohio River Valley Chapter |
| 11:35am to 12:05 pm | Vendor Sponsored Technical Talk New Plan QA Solutions from SunNuclear Dennis Savitskij Sun Nuclear |
| 12:00 pm to 12:30 pm | Box Lunch Provided |
| 12:30 pm to 1:20 pm | Invited Talk: Recent Developments of a linac-MR system for real-time guided radiotherapy Gino Fallone, Ph.D. Cross Cancer Institute, University of Alberta, Edmonton , Canada |
| 1:20 pm to 1:35 pm | Concluding Remarks Greg Bednarz, Ph.D. President-Elect, Penn-Ohio Chapter University of Pittsburgh Cancer Institute |
| 1:35 pm to 2:05 pm | ORV Business Meeting / Penn-Ohio Business Meeting / Vendor Tear Down |



Ohio River Valley and Penn-Ohio Chapters

ACKNOWLEDGEMENTS

The Ohio River Valley and Penn-Ohio Chapters would like to thank the generous support of the following corporate participants.

Gold Tier



www.brainlab.com



www.landauerinc.com



www.medical.siemens.com



www.sunnuclear.com



www.varian.com

VIP Sponsors



www.crbard.com



www.teambest.com



www.brachysciences.com



www.civco.com



www.coreoncology.com



www.elekta.com
www.impac.com



www.iba-worldwide.com



www.laconline.com



www.onconcepts.net



www.orfit.com



www.ptw.de



www.radimage.com



www.scandidos.se



www.standardimaging.com



www.theragenics.com



www.tomotherapy.com



www.wfr-aquaplast.com



www.unfors.com