

**American Association of Physicists in Medicine**  
**Ohio River Valley Chapter**



**Program**  
**March 1-2, 2013**  
**METS Center**  
**Erlanger, KY**



# Ohio River Valley Chapter

## AAPM ORVC Spring 2013 Symposium Program

<b>Friday, Mar. 1 – The METS Center</b> <i>3861 Olympic Blvd., Erlanger, KY –(859) 647-6387</i>	
6:15 pm to 7:00 pm	Poster session setup
7:00 pm to 9:00pm	Dinner and “Meet & Greet” social, with short exhibitor presentations:
	Heath Britt, PTW NY.
	Mac Clements, Radiological Imaging Technology.
	Kris Lyle, Sun Nuclear.

### POSTER PRESENTATIONS FROM SUBMITTED ABSTRACTS:

“Comparison of beam models configured with small and standard field size data,” Brooke Adams, Ohio Medical Physics Consulting.

“Evaluation of 4DRT: Assessment of temporal positional accuracy of gated radiation delivery using a custom motion phantom,” Vibha Chaswal, formerly University of Iowa.

“Small field dosimetry with Gafchromic film,” Margaret Cunningham, Ohio State University.

“MRI and 1H MRS evaluation of chronic manganese exposure in non-human primates,” Shalmali Dharmadhikari, Purdue University.

“A novel use of thermoplastic: Restraining head movement in monkeys during fMRI,” Peter Hardy, University of Kentucky.

“A Dose Monitoring Program for Computed Radiography,” Joshua Johnson, Ohio Medical Physics Consulting.

“Depth dose distributions in very small water phantoms compared with optimized treatment plans under limit scatter situations,” Zhou Peng, Indiana University.

**(Additional posters on display are from the Ohio River Valley Chapter membership at large.)**



# Ohio River Valley Chapter

<b>Saturday, Mar. 2 - The METS Center</b> 3861 Olympic Blvd., Erlanger, KY –(859) 647-6387	
7:00 am to 8:00 am	<b>Vendor Exhibit Setup</b>
7:30 am to 8:30 am	<b>Continental Breakfast (Provided) / Vendor Exhibits</b>
8:30 am to 8:35 am	<b>Symposium Launch by AAPM ORVC President</b> <i>Chris Allgower, Ph. D., DABR, IU Health Proton Therapy Center</i>
8:35 am to 8:45 am	<b>Opening Remarks by AAPM ORVC President-Elect</b> <i>Bryon Murray, M.S., DABR, Ohio Medical Physics Consulting</i>
8:45 am to 9:45 am <b>(Invited Speaker)</b>	<b>James G. Kereiakes Keynote Lecture</b> <b>Keynote Address: “Medical Physics Without Borders.”</b> <i>Prof. M. Saiful Huq, Ph.D., DABR, FAAPM</i> <i>Director of Medical Physics, University of Pittsburg Medical Center</i>
9:45 am to 10:00am	<i>Coffee Break (provided)/vendor Exhibits</i>
10:00 am to 10:15 am	Empirical Determination of Output Factors for Proton Therapy Fields using a Uniform Scanning Proton Beam and 10cm Snout - Elvira Aaron, Univ. of Cincinnati
10:15 am to 10:30 am	Phantom Analysis of Dose Reduction Techniques While Maintaining Image Quality for Chest CT - Jeffrey Barbarits, M. S., Ohio Medical Physics Consulting
10:30 am to 10:45 am	A Retrospective Dosimetry Study of Total Body Irradiation - Jonathan Filippi, Ohio State Univ.
10:45 am to 11:15 am	<b>Coffee Break (Provided) / Vendor Exhibits</b>
11:15 am to 11:30 am	Dose Perturbation of Two Spinal Metal Implants in Proton Beam Therapy - Yingcui Jia, Ph. D., Indiana Univ.
11:30 am to 11:45 am	Testing the hypothesis that the volume of brain parenchyma that receives a certain percentage of maximum dose in Gamma-Knife is dependent on the treated volume and not on the number, shape or location of the lesions. - Ganesh Narayanasamy, Ph. D., Univ. of Kentucky
11:45 am to 12:00 pm	Array calibration dependence on machine and photon energy and their effect on IMRT QA pass rates, Kate Noa, M.S., Ohio State Univ.
12:00 pm to 1:00 pm	<b>Lunch Break (Box Provided) / Vendor Exhibits</b>
1:00 pm to 1:15 pm	ACR CT Quality Control: Recent Updates - Zhihua Qi, Ph. D., Univ. of Cincinnati
1:15 pm to 1:30 pm	Time-Resolved Stochastic IMRT Planning - Arkajyoti Roy, Purdue Univ.
1:30 pm to 1:45 pm	Analyzing the effect of timing accuracy on NECR performance for dedicated breast PET – Krishnendu Saha, Ph. D., Ohio Medical Physics Consulting
1:45 pm to 2:00 pm	A method for estimating delivered dose to head-and-neck cancer patients



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	treated with IMRT – Eric Wolf, M.S., Univ. of Cincinnati
2:00 pm to 2:20 pm	<b>Coffee Break (Provided) Judge Deliberation and Vendor Exhibits (Optional Exhibit Breakdown at 2:00 pm)</b>
2:20 pm to 2:35 pm	<b>Awards</b>
2:35 pm to 3:15 pm	<b>Concluding Invited Talk: “My Journey in Molecular Imaging”</b> <i>Prof. Chin Ng, Ph. D., Univ. of Louisville</i>
3:15 pm to 3:25 pm	<b>Adjournment / Coffee Break (Provided) (Optional Exhibit breakdown at 3:15pm)</b>
3:25 pm to 4:00 pm	<b>Business Meeting</b>

## Exhibitor Acknowledgements

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# Ohio River Valley Chapter

## AAPM ORVC Officers for 2013



*Chris Allgower, Ph.D., DABR  
ORVC President (for 2013)  
IU Health Proton Therapy Center  
Indianapolis, IN*



*Bryon Murray, M.S., DABR  
ORVC President-Elect (for 2014)  
Ohio Medical Physics Consulting  
Dublin, OH*



*Michael Wheldon, M.S., DABR  
ORVC Secretary/Treasurer  
Ohio State University Medical Center  
Columbus, OH*



*Indra J. Das, Ph.D., DABR  
ORVC Chapter Board Representative  
Indiana University  
Indianapolis, IN*

**The Ohio River Valley Chapter Officers would like to thank you for your attendance. We look forward to seeing you again at our Fall Symposium.**

