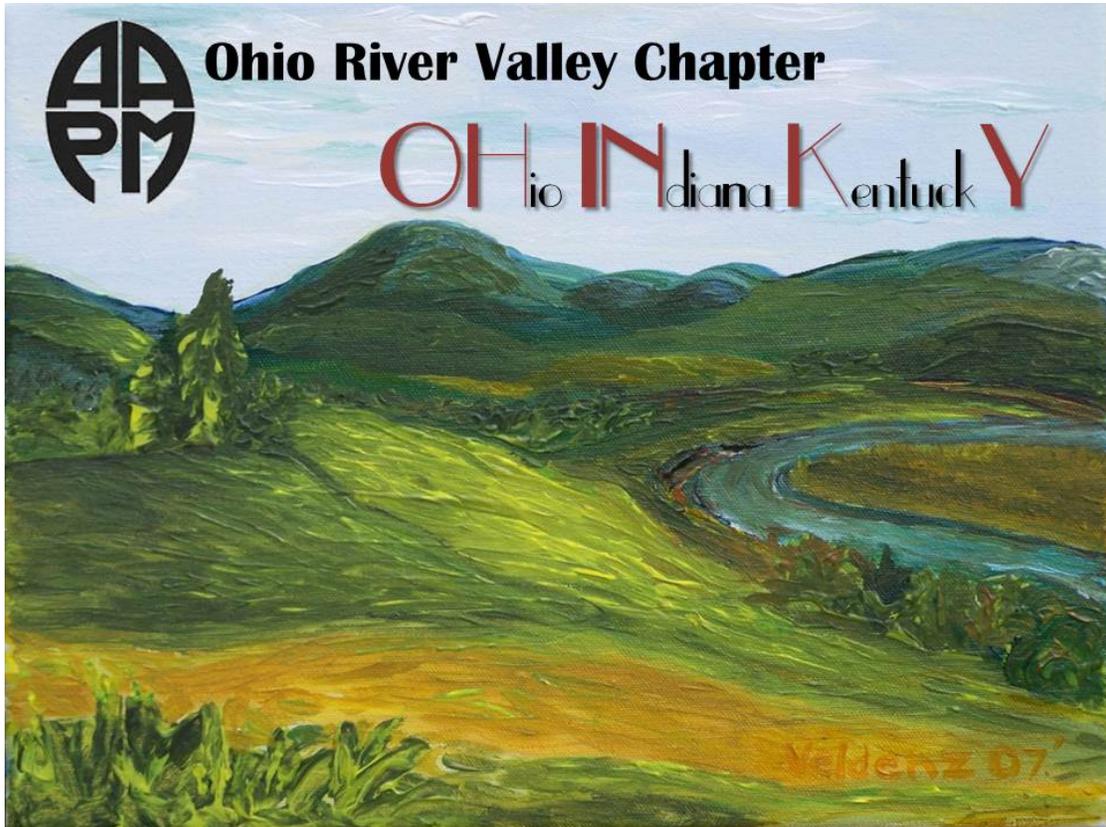


Spring Educational Symposium - 2014



**April 11-12, 2014
Hueston Woods Lodge &
Conference Center
College Corner, OH**



Ohio River Valley Chapter

AAPM ORVC Spring 2014 Symposium Program

Friday, Apr. 11 – Hueston Woods Lodge & Conference Center <i>5201 Lodge Road., College Corner, OH – (513) 664-3500</i>	
6:15 pm to 7:00 pm	Poster session setup, “Meet & Greet” social
7:00 pm to 7:30 pm	Dinner
7:30 pm to 7:45 pm	John Koterba, MIM Software Inc.
7:30 pm to 9:00 pm	Open Mic Discussion: What is wrong site?

POSTER PRESENTATIONS FROM SUBMITTED ABSTRACTS:

- “Development of Nonmagnetic Test Masses for Exotic Fifth Force Searches,” *Marjan Khosravi, Indiana University*
- “A Study of the Optimal PTV margin for Patients Receiving CBCT-Guided Prostate IMRT based on CBCT Dose Calculation,” *Sukhdeep Gill, University of Toledo Medical Center*
- “Dosimetric comparison of the Bladder and Rectum based on Daily CBCT for Prostate IMRT,” *Sukhdeep Gill, University of Toledo Medical Center*
- “Landmarks Mesh based 3D volume simulation and prediction using iterative morphing algorithm,” *Songan Mao, Indiana University, Purdue University*
- “Deformation Mapping and Shape Prediction with 3D Tumor Volume Morphing,” *Songan Mao, Indiana University, Purdue University*

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



Ohio River Valley Chapter

Saturday, Apr. 12 – Hueston Woods Lodge & Conference Center 5201 Lodge Road., College Corner, OH – (513) 664-3500	
7:00 am to 7:30 am	Vendor Exhibit Setup
7:30 am to 8:30 am	Breakfast (Provided) / Vendor Exhibits
8:30 am to 8:40 am	Symposium Launch by AAPM ORVC President <i>Bryon Murray, M.S., DABR, Ohio Medical Physics Consulting</i>
8:40 am to 8:45 am	Opening Remarks by AAPM ORVC President-Elect <i>David Pearson, Ph.D., DABR The University of Toledo Medical Physics Graduate Program</i>
8:45 am to 9:00 am	Radiation Damage comparison between Intensity Modulated Radiotherapy and Field-in-Field Technique in Breast Cancer Treatments <i>Huisi Ai, Department Radiation Oncology, Indiana University school of Medicine</i>
9:00 am to 09:15am	Increased sensitivity of measuring magnetic field inhomogeneity through Echo Planar Imaging <i>Erfan Akbari, University of Kentucky</i>
09:15 am to 9:30 am	Comprehensive Evaluation of the ArcCHECK 3D-diode array phantom: Rules of Thumb for phantom use for VMAT-QA <i>Vibha Chaswal, The Ohio State University</i>
9:30 am to 9:45 am	A Verification of Deformable Dose Software and Treatment Planning Software in the Evaluation of Dose to Targets and Normal Structures <i>Adam Dalhart, University of Toledo Medical Center</i>
9:45 am to 10:00 am	Monte Carlo Analysis of the Dose Enhancement in the Scalp of Patients due to Titanium Plate Backscatter during Post-Operative Radiotherapy <i>Michael Hardin, University of Cincinnati</i>
10:00 am to 10:30 am	Coffee Break (Provided) / Vendor Exhibits
10:30 am to 10:45 am	Acquisition and analysis of megavoltage Linac beam transmission data for direct verification of photon spectra models in a treatment planning system <i>Dimitra Lehta University of Toledo</i>
10:45 am to 11:00 am	Evaluation of a Diode Array for High Dose Rate Brachytherapy Quality Assurance <i>Nathanial Macey, University of Toledo</i>
11:00am to 11:15 am	A Quantitative study on optimizing kV Cone Beam image quality for improving Brachytherapy treatment planning on an Acuity Conventional Simulator <i>Kate Noa, Department of Radiation Oncology, The Ohio State University</i>
11:15 am to 11:30 am	Nanoparticle-Aided Microwave Hyperthermia: Observing Innovative Free Radical Generation <i>Nava Paudel, University of Toledo</i>



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11:30 am to 11:45 am	Influence of Compton Currents on Profile Measurements in Small-Volume Ion Chambers <i>Sean Tanny, University of Toledo</i>
11:45 am to 12:00 pm	Retrospective Evaluation of Thermal Coverage by Thermobrachytherapy Seed Arrangements of Clinical LDR Prostate Implants <i>Gregory Warrell, University of Toledo</i>
12:00 am to 12:15 pm	Dosimetric comparison of HDR brachytherapy and IMPT <i>Jason Wu, Purdue University</i>
12:15 pm to 1:15 pm	Lunch Break (Provided) / Vendor Exhibits and Judge Deliberation
1:15 pm to 2:15 pm (Invited Speaker)	Honorary James G. Kereiakes Keynote Lecture “Collaboration between diagnostic imaging and radiation oncology in research and the clinic.” <i>Michael Knopp, M.D. Professor of Radiology and Novartis Chair of Imaging Research PI and Director, Wright Center of Innovation in Biomedical Imaging and the Ohio Imaging Research and Innovation Network</i> <i>Vice Chair of Research, Department of Radiology</i> <i>Wexner Medical Center at The Ohio State University</i>
2:15 pm to 2:45 pm	Coffee Break (Provided) Vendor Exhibits
2:45 pm to 3:00 pm	Awards
3:00 pm to 4:00 pm	Concluding Invited Talk: “The future of the professional doctorate degree in medical physics” <i>Dr. Howard R. Elson, Ph.D., Director of Graduate Studies and Professor, Therapy Physics</i>
4:00 pm to 4:15 pm	Adjournment (Exhibit breakdown at 4:00pm)Business Meeting Immediately Following

Notes:



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Exhibitor Acknowledgements

The Ohio River Valley Chapter would like to thank the generous support of the following corporate participants:

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AAPM ORVC Officers for 2014



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



*David Pearson, Ph.D., DABR
ORVC President-Elect (for 2015)
University of Toledo, Department of Radiation
Oncology
Toledo, OH*



*Aaron Odom, M.S.
ORVC Secretary/Treasurer
Louisville, KY*



*E. Ishmael Parsai, Ph.D., FAAPM
ORVC Chapter Board Representative
University of Toledo Medical Center
Department of Radiation Oncology
Toledo, OH*

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.