Spring Educational Symposium - 2016

Ohio River Valley Chapter

April 15-16, 2016
Courtyard Marriott Downtown
Springfield, OH
Ohio River Valley Chapter

AAPM ORVC Spring 2016 Symposium Program

Friday, April 15 – Marriott Courtyard Springfield Downtown

100 South Fountain Avenue  Springfield, OH  45502  – (937) 322-3600

<table>
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<tr>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td>6:00 pm to 8:00 pm</td>
<td>Poster session setup, “Meet &amp; Greet”</td>
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<td>hors d'oeuvres and 2 drinks tickets provided</td>
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<td>8:00 pm to ~11:00 pm</td>
<td>Social event at Hafle Winery – transportation provided (Bus leaving Marriott at 8pm, returning at 11pm)</td>
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<td>Lite dinner provided</td>
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**POSTER PRESENTATIONS FROM SUBMITTED ABSTRACTS:**

All posters are welcome. If you did not submit an abstract but would like to present a poster please contact a chapter officer. Please bring posters to the Dana Cancer Center Lobby area one hour prior to the meet & greet. Any presenter who was accepted for a presentation is eligible to bring a poster to be displayed from 6-8pm on Friday. Poster boards will be provided.

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

Learning objectives for attendees:

- To learn about current strategies and future directions pertaining to patient safety in radiation therapy
- To learn about career options and challenges facing new medical physics graduates

6 MPCEC credits have been applied for through CAMPEP
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<tr>
<td>7:00 am to 7:30 am</td>
<td>Vendor Exhibit Setup</td>
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<tr>
<td>7:30 am to 8:30 am</td>
<td>Breakfast (Provided) / Vendor Exhibits</td>
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| 8:30 am to 8:40 am | Symposium Launch by AAPM ORVC President  
**Nicholas Sperling, PhD., DABR, University of Toledo Medical Physics Graduate Program** |
| 8:40 am to 8:45 am | Opening Remarks by AAPM ORVC President-Elect  
**Wei Luo, Ph.D., DABR, University of Kentucky Radiation Medicine** |
| 8:45 am to 9:45 am | **Honorary James G. Kereiakes Keynote Lecture**  
Waiting to Exhale: Surface Imaging for Deep-Inspiration Breath-hold Treatments of Breast Cancer  
**Dr. Hania Al-Hallaq, University of Chicago** |
| 9:45 am to 10:15 am | **Coffee Break (Provided) / Vendor Exhibits**                           |
| 10:15 am to 10:30 am | Evaluating the Dose and Image Quality of Proton Computed Tomography using a Filtered Backprojection Reconstruction from Monte-Carlo Cone-Beam Projection Simulations  
**Derek Moyer, University of Cincinnati** |
| 10:30 am to 10:45 am | Use of Organ Exposure Modulation to Reduce Eye Lens Dose in Diagnostic CT  
**Kyle Luttrell, University of Toledo** |
| 10:45 am to 11:00 am | A Modern Review of the Radiotherapeutic Potential of UV Light  
**Eric Miller, University of Kentucky** |
| 11:00 am to 11:30 am | **Coffee Break (Provided) / Vendor Exhibits**                           |
| 11:30 am to 11:45 am | Polarity Effect in Small Volume Ionization Chambers in Small Fields  
**Vidheesha Arora, University of Toledo** |
| 11:45 am to 12:00 pm | Assessment of Baseline Active Bone Marrow Volume and Correlation to Baseline Hematologic Parameters for Pelvic Malignancies  
**Mickaela Sudhoff, University of Cincinnati** |
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| 12:00 pm to 12:15 pm | A sensitivity dosimetry study of setup uncertainties during machine commissioning and annual QA  
*Vi Nhan Nguyen, University of Louisville* |
| 12:15 PM to 1:15 PM     | **Lunch (Provided) / Vendor Presentations**                           |
| 1:15 PM to 1:30 PM       | Evaluation of Detector response in Small Field Dosimetry  
*Aleem Qureshi, University of Toledo* |
| 1:30 PM to 1:45 PM       | Quantification of Mouse Brain Vasculature  
*Camrin Tipton, University of Cincinnati* |
| 1:45 PM to 2:00 PM       | A novel approach for sparing critical organs at risk for cancer patients undergoing radiation oncology treatments  
*Hossein Lavvafi, University of Toledo* |
| 2:00 PM to 2:15 PM         | Evaluation of the MaxFOV Extended Field of View (EFOV) Reconstruction Algorithm on a GE RT590 CT Scanner  
*Shelby Grzetic, Ohio State University* |
| 2:15 PM to 2:30 PM      | **Coffee Break (Provided) / Vendor Exhibits**                        |
| 2:30 PM to 2:45 PM      | Dosimetric Comparison of Radiation Treatment Plans for Whole Breast Irradiation between 3D Conformal in Prone and Supine Positions vs. VMAT and IMRT in Supine Positions  
*Anita Buele, University of Toledo* |
| 2:45 PM to 3:00 PM      | Systematic Evaluation of the Minimum Detectable Shift Using a Range-Finding Camera  
*Michael Platt, University of Cincinnati* |
| 3:00 PM to 3:15 PM      | Design and Implementation of a Multi-purpose Applicator for Pelvic Brachytherapy Applications  
*Jonathan Bogue, University of Toledo* |
| 3:15 PM to 3:30 PM      | **Coffee Break (Provided) / Vendor Exhibits + Award Deliberation**  |
| 3:30 PM to 4:00 PM      | Awards + President’s Closing Comments                               |
| 4:00 pm -              | Adjournment (Exhibit breakdown at 4:00pm)  
*Business Meeting Immediately Following* |
Exhibitor Acknowledgements

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

Elite Tier Sponsors

[Logos of RIT, Varian Medical Systems]

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[Logos of Philips, IBA, CDR Systems]
AAPM ORVC Officers for 2016

Nicholas Sperling, Ph.D., DABR
ORVC President (for 2016)
University of Toledo, Department of Radiation Oncology
Toledo, OH

Wei Luo, Ph.D., DABR
ORVC President-Elect (for 2016)
University of Kentucky, Department of Radiation Medicine
Lexington, KY

Ashley Cetnar, M.S.
ORVC Secretary/Treasurer
Ohio State University, Department of Radiation Oncology
Columbus, OH

E. Ishmael Parsai, Ph.D., FAAPM
ORVC Chapter Board Representative
University of Toledo, 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.