POSTER PRESENTATIONS (According to Corresponding Author):

Dynamic gating window for compensation of baseline shift in respiratory gated radiation therapy
   Eric W. Pepin, Ph.D. – Purdue University
In vivo imaging to monitor anti-angiogenesis and re-oxygenation on radio-sensitivity in pancreatic cancer xenografts
   Ning Cao, M.S. – Purdue University
Implementation of feedback-guided voluntary breath hold gating for CBCT-based stereotactic body radiotherapy
   Yong Peng, Ph.D. – Indiana University
Longitudinal craniofacial dysmorphology induced by prenatal alcohol exposure: a micro-CT study in C57BL/6J mice
   Huisi Ai, M.S. – Purdue University
Overview of proton computed tomography
   Kent I.D. Wong, M.S. – Purdue University
Quantifying radiation effects on intracerebral diffusivity: a pediatric case study of physiologic sequelae of radiation therapy
   Brian Casto, B.S. – University of Cincinnati
Proton dose distribution with respiratory motion effects between scattering and uniform scanning proton beam
   Qingya Zhao, Ph.D. – Midwest Proton Radiotherapy Institute
Using intensity modulated radiation therapy to perform total body irradiation for pediatric patients
   Daniel Vade Bon Coeur, M.S. – Ohio State University
Radiation treatment failure detection for moving tumor with image guidance
   Dinesh Jain, B.S. – Indiana University/Purdue University Indianapolis
Intrinsic characteristics study for optimal thickness of thin film CdTe under diagnostic x-ray beams
   Xiance Jin, Ph.D. – University of Toledo
Investigating the effect of particle size on the enhancement of radiation dose due to gold nanoparticles
   Nava R. Paudel, M.S. – University of Toledo
A novel device for delivering partial breast hyperthermia concurrent with partial breast irradiation
   Todd A. White, M.S. – University of Toledo
Whole liver 31P metabolite mapping with 3D CSI
Ohio River Valley Chapter of the AAPM

Scott Jones, M.S. – Purdue University

AAPM ORVC History
Minsong Cao, Ph.D., DABR – Indiana University (President-Elect)

Dose-volume histogram quality assurance for linac-based treatment planning systems
Michael S. Gossman, M.S., DABR – Tri-State Regional Cancer Center (President)

<table>
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<th>Time</th>
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<tr>
<td>7:00 am to 8:00 am</td>
<td>Vendor Exhibit Setup</td>
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<tr>
<td>8:00 am to 8:30 am</td>
<td>Continental Breakfast (Provided) / Vendor Exhibits</td>
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| 8:30 am to 8:35 am | Symposium Launch by AAPM ORVC President
                             Michael S. Gossman, M.S., DABR – Tri-State Regional Cancer Center |
| 8:35 am to 8:45 am | Opening Remarks by AAPM ORVC President-Elect
                             Minsong Cao, Ph.D., DABR – Indiana University                                           |
| 8:45 am to 10:00 am | James G. Kereiakes Keynote Lecture
                             Keynote Address: “A review of Stereotactic Body Radiation Therapy (SBRT) Developments, Technology and Recommendations”
                             Stanley H. Benedict, Ph.D., DABR, FAAPM
                             University of Virginia Health Systems                                                  |
| 10:00 am to 10:15 am | #1 - Error analysis of nonstandard HDR brachytherapy dosimetric techniques and its clinical implications
                             Ahmad A. Amoush, M.S. – University of Cincinnati                                          |
| 10:15 am to 10:30 am | #2 - Dosimetric effects near implanted vascular access ports under external electron beam radiation
                             David C. Segarra, M.S. – Wright State University                                            |
| 10:30 am to 11:00 am | Coffee Break (Provided) / Vendor Exhibits                                                    |
| 11:00 am to 11:15 am | #3 - Towards understanding the uncertainty in range and dose in presence of high-Z materials in proton therapy
                             Li Zhao, Ph.D. – Indiana University                                                       |
| 11:15 am to 11:30 am | #4 - Measurement of low energy backscatter factors
                             Christopher Mart, M.S. – University of Cincinnati                                         |
| 11:30 am to 11:45 am | #5 - Multi-leaf collimator for proton beam therapy: a double edge sword
                             Vadim P. Moskvin, Ph.D. – Indiana University                                               |
| 11:45 am to 12:00 pm | #6 - The comparison of dose modification factors for two multi-lumen brachytherapy applicators used in partial breast irradiation
                             Justin R. Sherman, B.S. – University of Toledo                                            |
| 12:00 pm to 1:00 pm | Lunch Break (Box Provided) / Vendor Exhibits                                                 |
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<th>Time</th>
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| 1:00 am to 1:15 am | #7 - Static and dynamic polynomial correlation of internal/external marker positions in radiotherapy  
Abby Besemer, B.S. - Indiana University/Purdue University Indianapolis  |
| 1:15 am to 1:30 am | #8 - Quality assurance utilizing 3D dose reconstruction for stereotactic lung radiotherapy  
James Durgin, M.S. – Ohio State University  |
| 1:30 am to 1:45 am | #9 - An automated program for shielding calculation of a radiotherapy vault  
Charles R. Rhodes, III, B.A. – University of Toledo  |
| 1:45 am to 2:00 am | Coffee Break (Provided) / Vendor Exhibits (Exhibit Breakdown at 2:00 pm)  |
| 2:00 am to 2:15 am | #10 – Advantages of implementation of a self-regulating thermobrachytherapy seed in treatment of solid tumors  
Bhoj R. Gautam, M.S. – University of Toledo  |
| 2:15 pm to 2:30 pm | #11 - Clinical challenges in implementing P-31 MR spectroscopy of focal liver lesions  
Anshuman Panda, M.S. – Purdue University  |
| 2:30 pm to 2:35 pm | Judge Deliberation  |
| 2:35 pm to 2:50 pm | Awards  |
| 2:50 pm to 3:00 pm | Adjournment / Coffee Break (Provided)  |
| 3:00 pm to 3:30 pm | Business Meeting  |

### Exhibitor Acknowledgements

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AAPM ORVC Officers

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Ashland, KY

Rebecca F. Richardson, M.S., DABR
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Louisville Radiation Oncology Center
Louisville, KY

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ORVC President-Elect
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Indianapolis, IN

Indra J. Das, Ph.D., DABR, FAAPM
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 in Louisville, KY.