Dear Colleagues and NEAAPM Members:

I hope you will make plans to join us for the NEAAPM Winter Meeting/ Peter Neurath Young Investigator Symposium (YIS), which will take place on Friday, February 2nd 2018, at the UMass Lowell Conference Center, Lowell, MA. Our President-Elect David Gladstone has put together an excellent speaker timetable for this first chapter meeting of the year.

We are continuing with the format of combining the Winter meeting with our Peter Neurath Young YIS, and have planned a modified full day to offer 4 professional speakers and 8 YIS presentations spread over the course of the day.

The combined NEAAPM Winter Meeting & YIS is an opportunity for professionals in medical physics to keep up to date on subjects relevant to the field and to interact with colleagues from around the New England area. The meeting is intended for physicists, dosimetrists, therapists and others with an interest in medical physics. It is sponsored by the New England chapter of the AAPM. We are incredibly excited to announce that along with our usual CAMPEP credits, we will also be offering one SAM talk.

Please consider registering via the website, with discounted early registration available until January 26.

The web location is http://chapter.aapm.org/NE

Sincerely,
Lindsey Berkowitz
President NEAAPM
# NEAAPM Winter Meeting with Peter Neurath YIS

**Date:** Friday, February 2nd 2018  
**Time:** 10am – 5pm  
**Location:** UMass Lowell Conference Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00-10:30</td>
<td>Registration/ Coffee</td>
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<tr>
<td>10:30-10:35</td>
<td>Introduction</td>
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<tr>
<td><strong>10:35-11:20</strong></td>
<td>Invited Talk 1: “Dose Escalation and Normal Tissue Sparing: Improved Outcomes in the Radiation Therapy of Prostate Cancer.” Alan C. Hartford, MD, PhD, Associate Professor of Medicine, Geisel School of Medicine at Dartmouth</td>
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<tr>
<td>11:20-11:30</td>
<td>YIS 1: Mengying Shi, “A Monte Carlo study of the impact of phosphor optical properties on EPID imaging performance”, University of Massachusetts Lowell</td>
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<td>11:30-11:40</td>
<td>YIS 2: Irwin Tendler, “Linear Accelerator Pulse-Synchronized Imaging of Scintillator Emission for Patient Surface Dosimetry”, Thayer School of Engineering at Dartmouth</td>
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<tr>
<td>11:50-12:00</td>
<td>YIS 4: Peter Jermain, &quot;Optical polarization imaging (OPI) for preoperative margin control in skin cancer surgery&quot;, University of Massachusetts Lowell</td>
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<td><strong>12:00-1:00</strong></td>
<td>Lunch</td>
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<td><strong>1:00-2:00</strong></td>
<td>Invited Talk 2: **SAM ** “MRI brachytherapy and MRI QA for therapy.” Robert Cormack, PhD, Associate Professor, Brigham and Women’s Hospital, Harvard Medical School</td>
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<td><strong>2:00-2:10</strong></td>
<td>YIS 5: Matthieu Lafreniere, “Continuous generation of volumetric patients images during treatment on a TrueBeam using triggered KV images and an external surrogate”, Harvard Medical School</td>
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<tr>
<td><strong>2:10-2:20</strong></td>
<td>YIS 6: William Swanson, “Geometry and Dose Variation Correlations for External-beam Accelerated Partial Breast Irradiation”, University of Massachusetts Lowell/Massachusetts General Hospital</td>
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<tr>
<td><strong>2:20-3:05</strong></td>
<td>Invited Talk 3: “Technology Developments for Liquid Biopsy of Cancer: improving signal to noise ratios for mutation detection.” G. Mike Makrigiorgos PhD, Professor and Director, Brigham and Women’s Hospital, Harvard Medical School</td>
</tr>
</tbody>
</table>
| **3:05-3:50** | Break and poster presentations:  
1.) Jihun Kwon, “Influence of physical parameters on tumor vascular dose enhancement by gold nanoparticles: a simulation study”, Harvard Medical School  
2.) Rachael L. Hachadorian, “Tissue Optical Property Corrections in Cherenkov Emission Imaging”, Thayer School of Engineering at Dartmouth |
| **3:50-4:00** | YIS 7: Erin Chambers, “PRIME: A Passive Intensity Modulator for Electron Beam Therapy”, Rhode Island Hospital, Brown University |
| **4:00-4:10** | YIS 8: Ramin Abolfath, “Renormalization of radiobiological response function by energy loss fluctuations and complexities in chromosome aberration induction: A cell deactivation theory for hadron therapy”, St. Vincent’s Medical Center, CT. |
| **4:10-4:55** | Invited Talk 4: “Radiosensitivity Prediction: Biology, genomics, and machine learning.” David Craft, PhD, Assistant Professor, Massachusetts General Hospital and the Broad Institute |
Location: UMass Lowell Conference Center

Address: 50 Warren Street, Lowell, MA, 01852

See Google map link for directions:

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