

**NEAAPM Winter Meeting -- Peter Neurath Young Investigator Symposium
Friday, March 15th 2019, Boston Museum of Science
Program**

- 9:15 Registration/ Coffee
- 10:00 SLAM Competition
- 10:40 Invited Talk 1: **“Incident Learning with RO-ILS and Beyond”**. Sheri Weintraub, MS, DABR, Chief Physicist and Director, Radiation Oncology, Southcoast Health
- 11:30 YIS 1: **“Spectrally Encoded Optical Polarization Imaging for In Vivo Mapping of Tumor Margins”**, Peter Jermain, PhD student, UMass Lowell
- 11:40 YIS 2: **“Differential Inflammatory Response Dynamics in Normal Lung Following Stereotactic Body Radiation Therapy with Protons versus Photons”**, Li Yanjing, PhD student, MGH/HMS
- 11:50 YIS 3: **“A Novel Method for Fast Image Simulation of Electronic Portal Imaging Devices (EPID)”**, Mengying Shi, PhD student, UMass Lowell
- 12:00 Lunch, Provided
- Research Panel: **“Medical Physics Research: the Less Traveled Road?”**.
Moderator: Georges El Fakhari, PhD, FAAPM, Director Medical Imaging, MGH;
Panelists: Thomas Bortfeld, PhD, FAAPM, Professor and Director, Radiation Biophysics, MGH;
Mark Rivard, PhD, FAAPM, FABS, Professor of Radiation Oncology, Brown University RIH;
Harald Paginetti, PhD, FAAPM, Professor, Radiation Oncology Department, MGH
- 1:10 YIS 4: **“Assessment of Imaging Cherenkov and Scintillation Signals in Head and Neck Radiotherapy”**, Daniel Alexander, PhD student, Thayer School of Engineering, Dartmouth College
- 2:00 YIS 5: **“A Model for Local Versus Distant Tumor Progression in Non-Small Cell Lung Cancer Patients Receiving Targeted and Radiation Therapies”**, David McClatchy, resident MGH/HMS
- 2:10 YIS 6: **“Deep Learning Predicts Lung Cancer Treatment Response from Serial Medical Imaging”**, Yiwen Xu, resident BWH/DFCI/MGH/HMS
- 2:20 Invited Talk 2: **“What Inspires Us: Stories Behind the Red Journal’s Cover Art”**. Anthony Zietman, MD, FASTRO, Director of Harvard Radiation Oncology Residency Program, MGH
- 3:10 Coffee Break / **Poster presentation**
- 3:40 YIS 7: **“Temperature Induced Changes in the Optical Properties of Skin In Vivo”**, Tyler Lorizzo, PhD student, UMass Lowell
- 3:50 YIS 8: **“Optimized Layer Combination in Megavoltage Multilayer Imagers”**, Ingrid Valencia Lozano, PhD, research fellow BWH/DFCI/HMS
- 4:00 Invited Talk 3: **“Volunteering with the AAPM: Why Do It and How To Get Involved.”** Cynthia McCollough, PhD, Professor of Medical Physics and Biomedical Engineering, Mayo Clinic
- 5:00 Adjourn

The NEAAPM Winter Meeting 2019 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.

Organizers have applied to CAMPEP for 4.5 MPCEC hours.