2014 NW AAPM Fall Meeting – Symposium Schedule
“Celebrating Madam Curie’s Birthday and Advances in Cancer Radiation Treatment”

Friday, November 7, 2014

UW Medicine South Lake Union Campus
850 Republican St. Seattle, WA 98109

About the UW South Lake Union Campus
In collaboration with UW Medicine Department of Radiation Oncology

Starting at 7:00 am

Registration: Entrance of the UW Medicine Orin Smith Auditorium

7:15 am to 7:50 am

Continental Breakfast – Location: UW Medicine, Room C123 A/B

7:50 am to 8:00 am – UW Medicine Orin Smith Auditorium: Welcome George Sandison, Ph.D., NW AAPM Chapter Past-President, Vice-Chair, Professor and Director of Medical Physics, Department of Radiation Oncology, School of Medicine, University of Washington

8:00 – 10:00 am - Invited Speaker Session: UW Medicine Orin Smith Auditorium

Moderator – George Sandison, Ph.D., NW AAPM Chapter Past-President, Vice-Chair, Professor and Director of Medical Physics, Department of Radiation Oncology, School of Medicine, University of Washington

8:10 - 9:00 am – Keynote Speaker – Robert Stewart, Ph.D., Associate Professor, Medical Physics, Department of Radiation Oncology, School of Medicine, University of Washington.

• Presentation: “Radiation Response Modeling from the Molecular to Tissue”

9:00 – 10:00 am – Invited Speaker - Charles Bloch, Ph.D., Associate Professor, Medical Physics, Department of Radiation Oncology, School of Medicine, University of Washington

• Presentation: “Introducing TG 100: a New Paradigm in Radiotherapy Quality Management”
10:00 am to 10:30 am – Coffee Break and Vendor Visit – Location: UW Medicine, Room C123 A/B

10:30 am to 12:30 pm - Regular Session Presentations – Location: UW Medicine Orin Smith Auditorium
Moderator – George Sandison, Ph.D., NW AAPM Chapter Past-President, Vice-Chair, Professor and Director of Medical Physics, Department of Radiation Oncology, School of Medicine, University of Washington

10:30 to 11:00 am – Murat Alp, Ph.D., Assistant Professor, Health Physics and Diagnostic Sciences, University of Nevada, Las Vegas, NV
- Presentation: "In Silico Models of Central Nervous System for Particle Therapy Treatment Modalities: a Visual Enlightenment"

11:00 – 11:30 am – Wade Smith, Ph.D, Assistant Professor, Department of Radiation Oncology, School of Medicine, University of Washington
- Presentation: "A Decision Model for De-intensification of Treatment for Oropharyngeal Cancer"

11:30 am – 12:00 pm – Mark Phillips, Ph.D., Professor, Department of Radiation Oncology, School of Medicine, University of Washington
- Presentation: "Oncospace: A Platform for Radiation Oncology Data Collection and Analysis"

12:00 pm – 12:30 pm - Sreeram Narayanan, Ph.D., Medical Physicist, Virginia Mason Cancer Center, Seattle, WA
- Presentation entitled: "A Tale of Two Intra-Ops"

12:30 pm to 2:00 pm – Lunch Break and Vendor Visit – Location: UW Medicine, Room C123 A/B and the UW Medicine South Lake Union Reception lounge

(1:00 pm to 2:00 pm - Chapter Business Meeting– 2014 NW AAPM EXCOM – Location: UW Medicine South Lake Union Board Room C-593, 5th Floor

2:00 pm to 4:00 pm – Young Investigator Session Presentations – Location: UW Medicine Orin Smith Auditorium
Moderator – Rex Ayers, MS, NW Chapter President-Elect, Medical Physicist, Northwest Medical Physics Center, Seattle, WA
2:00 pm – 2:12 pm – Alicia Cavan, Ph.D., Radiation Oncology Medical Physics Registrar, Canterbury District Health Board, New Zealand

- **Presentation**: "Accounting for Heat Diffusion in High Spatial Resolution Calorimetric Dosimetry with Digital Holographic Interferometry"

2:12 pm – 2:24 pm – Jie (Laurie) Zhang, Ph.D., Department of Bioengineering, University of Washington

- **Presentation**: "Quantitative Analysis of Lung Phantom SPECT/CT Studies"

2:24 pm – 2:36 pm – Chengeng Zeng, Ph.D., Department of Radiology, University of Washington

- **Presentation**: "Evaluation of the Quantitative Accuracy of a Breast-Imaging PET Scanner"

2:36 pm – 2:48 pm – Stefanie Junell, Ph.D., Department of Radiation Medicine, Oregon Health & Science University, Portland, OR

- **Presentation**: "Development of a Novel Imaging Biomarker to Monitor Vascular Responses of Peritumoral Tissue during Radiation Therapy"

2:48 pm – 3:00 pm – Olga Gopan, Ph.D., Department of Radiation Oncology, School of Medicine, University of Washington

- **Presentation**: "Design and Evaluation of the Variable-angle Slant-hole Collimator for 3D Molecular Breast Imaging"

3:00 pm – 3:12 pm – Jennifer Wong, MS, Oregon Health & Science University, Portland, OR

- **Presentation**: "Vernier Picket Fence Test: An Alternative Method to Achieve Submillimeter Positioning Accuracy for Physics"

3:12 pm – 3:24 pm – Eunsin Lee, Ph.D., Department of Radiation Oncology, School of Medicine, University of Washington

- **Presentation**: "Study of the Angular Dependence of a Prompt Gamma Detector Response During Proton Radiotherapy"

3:24 pm – 3:36 pm – Kristen Wangerin, Ph.D., Department of Radiology, University of Washington

- **Presentation**: "Improving Lesion Detectability in Breast Cancer by Optimizing PET Imaging Time"

3:36 pm – 3:48 pm – Tzu-Cheng (Efren) Lee, Ph.D., Department of Bioengineering, University of Washington

- **Presentation**: Impact of CT Attenuation Correction Method on Quantitative Respiratory-correlated (4D) PET/CT Imaging

3:48 pm – 4:00 pm – Additional questions period for attendees
4:00 pm to 4:30 pm – Coffee Break and Vendor Visit – Location: UW Medicine, Room C123 A/B

4:30 pm - 5:00 pm – Regular Session Presentations – Location: UW Medicine Orin Smith Auditorium
Moderator – Robin Miller, MS, DABR, FAAPM, NW AAPM Chapter Board Representative- Elect, Northwest Medical Physics Center, Multicare Hospital, Tacoma, WA

4:30 pm – 5:00 pm – Ira Kalet, Ph.D., Professor Emeritus, Department of Radiation Oncology, School of Medicine, University of Washington

- **Presentation:** "Predicting the CTV from Anatomical Knowledge: A First Ever Medical Application of Category Theory"

5:00 pm to 5:30 pm – George Sandison, Ph.D., Professor, Department of Radiation Oncology, School of Medicine, University of Washington

- **Presentation entitled:** "A Renaissance of Neutron Therapy"

5:30 pm to 5:45 pm – Young Investigator Awards Presentation - Rex Ayers, MS, NW Chapter President-Elect

5:45 pm to 6:00 pm – Evaluations Collection and Closing remarks - George Sandison, Ph.D., NW Chapter Past-President

6:00 pm – 6:30 pm - Social Event – Location: UW Medicine South Lake Union Main Lobby

*Hosted by the 2014 NW AAPM ExCom and sponsored by ELEKTA.*

**Evaluations:** All attendees and students will be **required to complete and submit** program and speaker evaluations to document attendance and to receive Continuing Education Credits (CAMPEP). Please leave your completed evaluation forms in the assigned evaluation box on the Registration table.