



## 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

### **Starts 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

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**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*”
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**10:00 am to 10:30 am – Coffee Break and Vendor Visit – Location:** UW Medicine, Room C123 A/B

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**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"*

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**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, 5<sup>th</sup> Floor

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**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"*
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**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**

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**4:00 pm to 4:30 pm – Coffee Break and Vendor Visit – Location:** UW Medicine, Room C123 A/B

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**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.*