AAPM 2016
MUST-SEE SCIENTIFIC SESSIONS

SUNDAY, JULY 31

3:00 PM - 6:00 PM, SU-F-T-155, Exhibit Hall,
Validation of a Commercial Monte Carlo Dose Calculation Algorithm for Proton Therapy

J Saini[1]*, S St. James[2], E Traneus[3], T Wong[1], R Stewart[2], C Bloch[2] , (1) SCCA Proton Therapy Center, Seattle, WA, (2) University of Washington, Seattle, WA, (3) RaySearch Laboratories, Stockholm, Sweden

MONDAY, AUGUST 1

5:00 PM - 5:30 PM, MO-FG-CAMPUS-TeP2-2, ePoster Theater, Exhibit Hall E
First Experiences and Perspectives in Using Direct Multicriteria Optimization (MCO) On Volumetric-Modulated Arc Therapy (VMAT) for Head and Neck Cancer

Samantha Edgington*, Christopher Cotter, Paul Busse, Bruce Crawford, and Yi Wang, Department of Radiation Oncology, Massachusetts General Hospital, Harvard Medical School, Boston, MA

5:30 PM - 6:00 PM, MO-FG-CAMPUS-TeP3-2, ePoster Theater, Exhibit Hall E
Benchmarks of a Proton Relative Biological Effectiveness (RBE) Model for DNA Double Strand Break (DSB) Induction in the FLUKA, MCNP, TOPAS Monte Carlo transport codes and the RayStation Treatment Planning System

R Stewart[1]*, S Streitmatter[2], E Traneus[3], V Moskvin[4], J Schuemann[5] , (1) University of Washington, Seattle, WA, (2) University of Utah Hospitals, Salt Lake City, UT, (3) RaySearch Laboratories, Stockholm, Sweden, (4) St. Jude children's Hospital, Memphis, TN, (5) Massachusetts General Hospital, Boston, MA

5:00 PM - 5:30 PM, MO-FG-CAMPUS-TeP2-4, ePoster Theater, Exhibit Hall E
Optimizing for a Specified Target Coverage Probability
Albin Fredriksson, RaySearch Laboratories, Stockholm, Sweden

TUESDAY, AUGUST 2

4:30 PM - 6:00 PM, TU-H-BRC-3, Ballroom C,
Evaluation of Very High-Energy Electron (VHEE) Beams in Comparison to VMAT and PBS Treatment Plans

E Schueler[1]*, K Eriksson[2], E Hynning[2], B Loo[1], P Maxim[1], (1) Stanford University School of Medicine, Palo Alto, California (2) RaySearch Laboratories, Stockholm, Sweden

5:30 PM - 6:00 PM, TU-H-CAMPUS-JeP3-1, ePoster Theater, Exhibit Hall E
Towards Robust Adaptive Radiation Therapy Strategies

M Boeck[1,2]*, K Eriksson[1] , A Forsgren[2] , B Hardemark[1], (1) RaySearch Laboratories AB, Stockholm, Sweden, (2) KTH Royal Institute of Technology, Stockholm, Sweden

WEDNESDAY, AUGUST 3

7:30 AM - 9:30 AM, WE-AB-209-7; Room 209,
Explicit and Convex Optimization of Plan Quality Metrics in Intensity-Modulated Radiation Therapy Treatment Planning

L Engberg[1,2]*, K Eriksson[1] , A Forsgren[2], B Hardemark[1], (1) RaySearch Laboratories, Stockholm, Sweden (2) KTH Royal Institute of Technology, Stockholm, Sweden

RaySearch Laboratories

WELCOME TO RAYSEARCH EVENING SYMPOSIUM AT **AAPM 2016**

SUN, JUL 31 AT 6:30 PM, WASHINGTON, DC, USA



ADVANCING RADIATION THERAPY THROUGH SOFTWARE INNOVATION

6:30 pm
Welcome reception



7:30 pm
Welcome by the moderator

Marc Mlyn, President,
RaySearch Americas, Inc.
New York, USA



7:35 - 7:55 pm
Adaptive radiation therapy with RayStation: addressing an urgent clinical need

Niek Schreuder, Chief Medical Physicist,
ProVision Center for Proton Therapy,
Knoxville, TN, USA



7:55 - 8:35 pm
Advancing radiation therapy through software innovation

Johan Löf, Founder & CEO,
RaySearch Laboratories AB,
Stockholm, Sweden



8:35 pm
Buffet dinner

Tickets - $25

Location
ANDREW W. MELLON AUDITORIUM

Located in the Federal Triangle:
1301 Constitution Ave NW,
Washington, DC 20240



PLEASE REGISTER AS SOON AS POSSIBLE, AS SEATS ARE LIMITED.

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