

Radiological and Medical Physics Society of New York, Inc.

2022 RAMPS Fall Symposium

Hypofractionated Radiotherapy and Recent Developments

Friday September 16th, 2022

9:00am – 4:30pm

Bohemian National Hall

321 E 73rd St, New York, NY 10021

Continuing Education:

This meeting has applied to CAMPEP for approval of 4.15 MPCEC hours.

Meeting Program:

Time

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| 9:00 - 9:30 | Registration, Visit the vendors
Coffee and Beverages |
| 9:30 - 9:40 | Welcome
Jussi Sillanpaa, PhD; President, RAMPS, Department of Medical Physics, MSKCC |
| | Introduction
Haibo Lin, PhD; President-Elect, RAMPS, New York Proton Center |
| 9:40 - 10:30 | Successful implementation of a same-day SRS/SBRT pilot program for the treatment of intra- and extra-cranial metastases

Michalis Aristophanous, PhD
Department of Medical Physics, MSKCC, New York, NY |
| 10:30 - 11:20 | MR Linacs and clinical experience on a low-field system for SBRT treatment

Indrin Chetty, PhD
Department of Medical Physics, Henry Ford Health System, Detroit, MI |
| 11:20 - 12:20 | Showcase with vendors |

- 12:20 - 1:20 **Lunch/Coffee – Visit the vendors**
- 1:20 - 2:10 **Proton SBRT at New York Proton Center – Today and Future**
- Pingfang Tsai, PhD**
New York Proton Center, New York, NY
- 2:10 - 3:00 **The Art and Science of Spatially Fractionated Radiation Therapy (SFRT)**
- Xiaodong Wu, PhD**
Innovative Cancer Institute, Miami, FL
- 3:00 – 3:30 **Coffee Break – Visit the Vendors**
- 3:30 - 4:20 **Real Time Motion-adapted Prostate SBRT using the Radixact Synchrony System:
Commissioning, Testing and Clinical Implementation**
- Wolfgang A. Tome, PhD**
Montefiore Medical Center/ Albert Einstein College of Medicine, New York, NY
- 4:20-4:30 **Closing Remarks**

Registration

Registration is by PayPal: https://chapter.aapm.org/ramps/RAMPS/Symposium_2022.html

In-person and virtual registration are available:

In-person registration	before June 10th, 2022	after June 10th, 2022
RAMPS Members	\$85	\$95
Non-Members	\$110	\$120
Student/Resident/Postdoc (with attesting letter or ID)	\$5.00	\$5.00
Member plus Guest	\$190	\$200
 Virtual registration		
RAMPS Members		\$35
Non-Members		\$45
Student/Resident/Postdoc (with attesting letter or ID)		\$5.00

For Students/Residents

\$5.00 fee + letter from advisor attesting status or student ID is required at registration

Accreditation Statement

CAMPEP (Medical Physics) credits application is in process.

*To comply with AAPM policies, only attendees who are fully vaccinated against COVID-19 will be permitted to attend in person. Therefore, **by choosing the in-person option, attendees attest that they are fully vaccinated against COVID-19 and accept the risks associated with in-person meetings.***

The main learning objective:

1. Successful implementation of a same-day SRS/SBRT pilot program for the treatment of intra- and extra-cranial metastases

Michalis Aristophanous, PhD

Department of Medical Physics, MSKCC, New York, NY

1. Overview of the SRS/SBRT program at MSK
2. Describe same day workflow
3. Implementation challenges and future directions

2. MR Linacs and clinical experience on a low-field system for SBRT treatment

Indrin Chetty, PhD

Department of Medical Physics, Henry Ford Health System, Detroit, MI

1. review the influence of the B field related to distortions, electron recoil, and impact on detectors
2. share clinical experience with treatment of SBRT using IGRT and on-line adaptation for different anatomic sites.

3. Proton SBRT at New York Proton Center – Today and Future

Pingfang Tsai, PhD

New York Proton Center, New York, NY

1. Overview of the current status of proton therapy in SBRT
2. Applications of SBRT proton therapy in re-irradiation, lattice, FLASH therapy

4. The Art and Science of Spatially Fractionated Radiation Therapy (SFRT)

Xiaodong Wu, PhD

Innovative Cancer Institute, Miami, FL

1. Historical overview of SFRT
2. The evolving principles in SFRT

3. Technical and clinical aspects of SFRT
4. The Outlook of SFRT

5. Real Time Motion-adapted Prostate SBRT using the Radixact Synchrony System: Commissioning, Testing and Clinical Implementation

Wolfgang A. Tome, PhD

Montefiore Medical Center/ Albert Einstein College of Medicine, New York, NY

1. Discuss the scientific and engineering aspects of motion management
2. Discuss the Quasi-Static Model
3. Discuss the Engineering approach to the problem using the Accuray Radixact Realtime Motion management Solution (Synchrony): a) Discuss the Respiratory Model; b) Discuss commissioning and quality assurance of this system; c) Discuss use of this system for Prostate SBRT.