Physicists as Educators

**Speaker:** Rebecca Lamoureux, PhD DABR  
**Title:** AAPM Committee on Medical Physicists as Educators Traveling Road Show

**Learning objectives:**
- Recognize strategies for organizing teaching for adult learners.
- Discover techniques for formative assessment.
- Identify opportunities to engage in educational activities within AAPM.

Proton Therapy: Retreatment and Common Pitfalls

**Speaker:** Cristina DeCesaris, MD  
**Title:** "Re-irradiation for Primary Malignant Brain Tumors – Patient Selection and Technical Considerations"

**Learning Objectives:**
- Understand treatment options for recurrent gliomas and factors affecting patient selection for re-irradiation.
- Review available literature supporting re-irradiation for primary brain tumor.
- Review available literature describing technical considerations including cumulative dosimetry, radiation modalities, and expected toxicity profiles.
- Discuss future directions in management of recurrent gliomas, including clinical trials incorporating re-RT.

**Speaker:** Vikren Sarkar, PhD, DABR

**Title:** Lessons learned from 1.5 years of proton planning – common pitfalls.

**Learning Objectives:**
- Review common sources of uncertainties associated with proton planning.
- Discuss techniques that can be used to limit the impact of these uncertainties on the final plan.

Equity, Diversity, and Inclusion

**Speaker:** Toni Roth, MS, DABR (30 min)
**Title:** "Building Belonging: Allyship and Power Differentials"

**Learning Objectives:**
- To understand power differentials between colleagues, mentor to mentee, and medical physicists to patients.
- To learn reflective practices to foster allyship in the workplace, within AAPM, and at home.

**Speaker:** Julianne M. Pollard-Larkin, PhD DABR (30 min)  
**Title:** "EDI in Med Phys: How we started and are we there yet?"

**Learning Objectives:**
- To understand what the terms equity, diversity and inclusion mean.
- To become familiar with the scope and breadth of the work of EDI groups within AAPM.
CT Protocol and Dose Review

**Speakers:** Renee Butler, MS, DABR And Wei Zhou, PhD DABR (1hr)

**Title:** CT protocol optimization and dose review: experiences and perspective of a medical physics service group and a university hospital

**Learning Objectives:**

**Medical Physics Service Group**
- to review standard RDIM metrics periodically assessed and reported to facility Quality Committees
- to review a complex case of written protocol documentation and standardization for a hospital system with numerous manufacturers/models of CT.

**University Hospital**
- to learn experience for CT protocol optimization and dose review in an academic system.
- to learn the experience and lesson for initial pediatric CT protocol development of emerging photon counting CT.

Novel medical physics projects in the Rocky Mountains

**Speaker 1:** Christian Dial, PhD, DABR

**Title:** Improving efficiency and incorporating values in staff scheduling using mathematical optimization

**Learning Objectives:**
- Demonstrate how diverse skillsets of medical physicists can be applied outside of routine physics work to benefit teams and departments
- Describe basic optimization framework for staff scheduling and articulate tradeoffs between equity, flexibility, and constraints.

**Speaker 2:** Alex Markovic, PhD, DABR

**Title:** Fabrication of custom silicone bolus.

**Learning Objectives:**
- Explain advantages of custom silicone bolus
- Describe the steps in fabricating silicone bolus

**Speaker 3:** Jessica Huang, PhD, DABR

**Title:** HyperSight: University of Utah Clinical Experience

**Learning objectives:**
- HyperSight introduction
  1. What is HyperSight? HyperSight vs Halcyon?
  2. Characteristic of the HyperSight
- Utah’s clinical go-live experience
  1. Building up our planning experience – TB vs HyperSight plans with various treatment sites.
  2. Workflow description, including Mosaiq and Aria interface design.
  3. Strength and weakness of HyperSight based on our experiences.
  4. Future workflow considerations

**Speaker 4:** Nikki Maughan, PhD, DABR

**Title:** "Lattice Therapy: A Story of Implementation and Adaptation".

**Learning Objectives:**
- How to implement Lattice therapy treatment planning
• How to address day-to-day challenges with patient setup.

**Speaker 5:** John Gordon, MS, DABR  
**Title:** Cardiac SBRT for Ventricular Tachycardia

**Learning Objectives:**

• At the conclusion of this presentation, the participant should be able to describe the impact of ventricular tachycardia on affected patients.
• At the conclusion of this presentation, the participant should be able to recognize the evidence supporting the use of stereotactic radiation therapy in the management of patients affected by ventricular tachycardia.