

PTRA Oversight Committee Meeting, July 22, 2019
Director's Report, submitted by Karen Jo Matsler

The PTRA leadership institute will be held after the AAPT meeting at Capitol Reef National Park in Utah July 24-28, 2019. The main focus of the institute is astronomy and it will be led by Duane Merrell and Emma Smith. There are several other presenters including:

Tom O'Kuma: Apps for Stars and Planets, Light and Astronomy, Exoplanets,

Mario Belloni, Wolfgang Christian: Physlets, PWAs, Tracker and Astronomy

Alice Flarend: Updated resources on Quantum Cryptography

Kenric Davies: Updated PI resources and LC for Blackholes and M87

Janie Head: AP Physics

Damian Pope: Perimeter Institute (skype in to answer questions on M87, etc)

Attendees were required to pay a registration fee of \$200 (as per WM19), which was put into the Continuation Fund. There are 33 attendees this year, 5 of those being new. Most are staying in the dorm but there is only room for 24 in the dorm so others are staying at nearby hotels. All travel and housing costs are paid by the PTRAs, but those with qualifying workshops or CF donations may receive up to \$500 in reimbursements.

Action from WM19: Meeting with Gay Stewart on possibilities of providing PD for AP teachers.

PTRAs presented multiple sessions at WM 19 and are presenting several workshops/sessions at AAPT SM19 including: Fun and Engaging Labs (Duane Merrell), Cartoon Physics (Kenric Davies), Make, Play-n-Do (Nina Daye), Physics of Sound (Nancy Easterly, Ann Robinson), Paper Drag Racers (Tommi Holsenbeck, Duane Merrell), Quantum Computing in your Classroom (Kenric Davies), Googling It (Michael Strange for HS room), and Gravitational Waves (Karen Jo Matsler). Most of the sessions were "atypical" in that they were bigger blocks of time, similar to a workshop but no charge. Look forward to feedback from these sessions and whether they are a good use of our resources.

As of July 18, the Continuation Fund had a balance of \$170,249. That does not include the summer expenditures.

Matsler will be meeting with Hilborn and others interested in a AAPT Quantum Initiative on Tuesday morning at 7:00. Recognizing that the focus of technology is turning to quantum technology and that most teachers have limited background knowledge of how this relates to future jobs, I believe we need to move forward with establishing ourselves as a valid PD provider for helping teachers incorporate quantum to their classrooms. Therefore, I would like PTRA to establish two PD institutes that focus on quantum principles in the summer of 2020. These sites would offer 2-3 days of PD and would cost approximately \$60K. I would like to also purchase 12 interferometers from Dan Beeker (who has provided these for AAPT workshops) to be used in upcoming workshops. Extras could also be sold. Cost is around \$120 each. New business: Priorities for 2020 budget? Session type and topics for SM2020 and 2020 institute? Other opportunities for growth or sustainability