

PTRA Oversight Committee Meeting Minutes
Monday January 8, 2018 7:30-9:00 AM
Town and Country Conference Center, San Diego, CA

Committee Members:

Present: Pat Callahan (Chair), Tommi Holsenbeck, Janie Head(via phone), Ed Price, Earl Blodgett (via Skype), Karen Jo Matsler(Director ex-officio member), Robert Hilborn (ex-officio), Rebecca Vieyra (ex-officio)

Absent: Tom O’Kuma, Kelly O’Shea

Friends of Committee in Attendance:

Jill Marshall (incoming committee chair), Chris Chiaverina (incoming committee member), Jan Mader (incoming committee member), George Amann (PTRA and AAPT Board of Directors), Ann Robinson (PTRA), Sharon Kirby (PTRA), Duane Merrell (PTRA), Bruce Mason (Compadre), Jay Bagley (PTRA), Nancy Easterly (PTRA), Sam Sampere (Syracuse University), Amanda Kotila (Montana), David Sturm (University of Maine), Katya Denisova (PTRA), Wolfgang Christian (AAPT Board of Directors),

Meeting was called to order at 7:30 AM

1. Committee members and friends of the committee were briefly introduced
 - a. Welcome to newly appointed Chair and members of Committee
 - i. Jill Marshall (2021)– Chair
 - ii. Chris Chiaverina (2021) – replacing Tom O’Kuma
 - iii. Jan Mader (2021)
 - b. Thanks to committee members leaving the committee
 - i. Tom O’Kuma – appointed AAPT Treasurer
 - ii. Ed Price
 - iii. Pat Callahan
 - c. The passing of Rae Ann Roeder (wife of John), Judy Franklin (wife of Bill) and John Layman (one of PTRA co-founders and long time PTRA supporter) were noted and condolences were offered to surviving family and friends.
 - i. Addresses for families can be obtained by contacting Karen Jo Matsler.
2. Pat Callahan and Karen Jo Matsler prepared the PTRA report to the AAPT Board of Directors. The Board reviewed the report at Saturday’s meeting and had minimal questions for Pat – report attached.
3. Karen Jo Matsler presented the Director’s report – see attached report
 - a. Anyone wishing to join PTRA list serve can do so on AAPT website. Karen Jo Matsler or Rebecca Vieyra can also assist with joining the listserv.
 - b. Discussions have been held with PIRA and ALPHA groups to coordinate opportunities for potential partnerships.
 - i. PIRA/ALPHA has invited PTRA to join their meetings at Loyola University in Baltimore prior to SM18.
 - ii. Enough dorm space, workshop space and food has been arranged by PIRA/ALPHA to accommodate PTRA group of around 30 participants.
 - iii. Sam Sampere explained that PIRA has an extensive catalog of demonstrations and PTRA could contribute to the development of lessons surrounding many for use at K-12 level.
 - iv. Jay Bagley commented on the appeal of make and takes at middle and elementary levels.
 - v. Ann Robinson proposed an idea for summer leadership to have prior access to PIRA demo list so participants could come prepared to work on specific topics and develop lessons related to demos this summer.
 - vi. Sam Sampere reminded group of the availability of Bauder Funds to support lecture/demo workshops.

- vii. Rebecca Vieyra shared that APS has mini-grants available up to around \$10,000, need to look into due dates for such grants.
 - c. Rebecca reported that there may be interest in working with Acoustical and Optical Societies
 - d. The extension of PTRA leadership to include 4 or 2 yr college/university faculty (votes on in the summer of 2017) replaces a 2010 PTRA Advisory Committee recommendation to require PTRA leaders to be pre-college teachers at the time of becoming a PTRA leader.
 - i. College level faculty being considered as PTRA leaders should demonstrate a K-12 connection
 - ii. Jill Marshall suggested that pre-service teacher connections should also be encouraged
 - e. Karen Jo will work to improve website design
 - f. Bob Hilborn will have Executive Office work with Jill to have timely financial reports available.
4. Financial Report – Continuation Fund balance as of November 2017 was \$163,294.64 – see attached report
5. The only action item that the committee acted on since SM17 was the PTRA budget, which was unanimously approved – see attached.
6. Reports were given from PTRA Projects that received support from Continuation Fund for summer 2017
- a. Wisconsin River Falls (UWRF) – Earl Blodgett
 - i. Had 12 participants and the workshop broke even financially
 - ii. Summer 18 is being planned and will include topics on Energy in Fluids and Thermal Dynamics. Signups begin in February
 - iii. Support funds no longer needed for continuation of program
 - iv. Will seek ways to have funds to contribute to the PTRA Continuation Fund
 - b. Utah – Duane Merrell
 - i. Duane Merrell and Lars Johnson presented workshop on labs for 7 participants
 - ii. Emma Smith presented Astronomy workshop for 9 participants.
 - iii. Even though PTRA Continuation funds were approved, they were not needed for workshops to succeed
7. The “Notes from John Roeder” (attached) was discussed concerning revisions to PTRA resources
- a. Wolfgang Christian reminded group that any new material that is developed is not copyrighted by AAPT
 - b. Bruce Mason reported that Compadre is willing to engage in discussions with PTRA to assist in dissemination of materials
 - i. Currently Compadre is not set up to deal with “for-fee” publications but is willing to look into it
 - ii. Compadre can currently work with materials requiring permission/passwords for access.
 - c. Publish on demand options are to be investigated
 - d. Katya Denisova suggested that materials must have solid connections to NGSS. Jan Mader added they also need Common Core and ELA connections.
 - e. Support and assistance in producing materials as Digi-kits were encouraged.
 - f. Ed Price encouraged group to produce materials that were editable and able to be utilized in a variety of venues. The development of kits associated with materials was encouraged as many districts are attracted to such materials
 - g. Jan Mader offered to lead continued discussions on revisions.

8. Subcommittee reports were made to the Oversight Committee
 - a. AAPT Connections and Communications
 - i. The need to continue monthly submissions to AAPT eNNOUNCER was stressed
 - ii. Continue to include PTRAs titled sessions and workshops at winter and summer AAPT meetings
 - iii. May be some value to include posters to be displayed at registration area on winter and summer AAPT meetings
 - b. Funding - nothing new to report
 - c. Outreach
 - i. Need to continue to seek out venues for workshops
 - ii. New York connection with Math for America was highlighted
 - d. Workshop Procedures and Documentation – nothing new to report
 - e. Recruitment
 - i. Need to encourage PTRAs to bring someone along to mentor
9. Committee Actions from Director's Report
 - a. A minimum of \$250 needs to be contributed to the PTRAs continuation fund from PTRAs activities within last two years in order for a PTRAs leader to receive a travel stipend for PTRAs Leadership Institute. - Motion Passed by unanimous vote of members in attendance
 - b. PTRAs leaders must provide a minimum of 6 hours of PTRAs activities within the previous two years in order to attend the PTRAs Leadership Institute free of charge. PTRAs leaders who do not meet these provisions will be assessed a \$200 fee to attend the 2018 Leadership Institute. - Motion Passed by unanimous vote of members in attendance
 - c. PTRAs will not be required to register for the AAPT summer meetings in order to attend the summer PTRAs Leadership Institutes. - Motion Passed by unanimous vote of members in attendance
10. Physics Master Teacher Leadership Force update – Rebecca Vieyra
 - a. Policy fellowships have been funded to provide for cohorts of K-12 teachers from 1 to 3 states to attend an 8 day program in DC prior to the AAPT SM18. PTRAs could possibly meet with group in joint activity.
 - b. Funds have been obtained from 100K in 10 program to produce additional Digikits, PTRAs Alice Flarend was identified as good resource and has agreed to work on Digikits.
 - c. NSF grant proposal to support the PALS initiative was denied,
 - d. Computational Modelling in Physics First is funded and will take place in Chicago area
11. Time did not allow for reports of workshops since SM17. PTRAs were encouraged to provide workshops at section levels as well as state meetings..
12. Attendees were thanked for their involvement in meeting.

The meeting was adjourned at 9:10 AM

Respectfully submitted:

Patrick Callahan

AAPT/PTRAs Oversight Committee Chair

Many thanks to Jan Mader for the detailed notes that allowed these minutes to be developed.

PTRA Report to AAPT Board of Directors January 2018
Patrick Callahan AAPT/PTRA Oversight Committee Chair

In 2017, over 557 participants attending PTRA workshops registered via survey monkey and 107 completed post workshop surveys. Workshop conditions often were not conducive to gathering post workshop surveys, thus the mismatch in registrations and post workshop survey numbers. Pictures, descriptions, and more information about the workshops can be found at aaptptra.com under the Professional Development tab. Workshops were held for 10 of the 12 months of the year (August and May were understandably not peak months). Other data collected from the surveys include:

- More females (54%) than males attended the workshops
- Participants ranged in expertise from grade 3 through university faculty, with the majority (70%) being HS teachers.
- Most of the participants were identified as Caucasian/White (74%), but the remainder included Hispanic, Asian, African American, and multiple races.
- Most of the topics were related to the summer PTRA leadership institute training (Perimeter, Quantum, TIPERS, Engineering, Video analysis, etc.)
- Most (45%) of the workshops were less than a day in duration with 25% being a full day, 12% lasting a week, and 9% two weeks. The average number of hours per participant was 12.6 hrs.

Summer is not the only time PTRAs provide professional development for their physics peers. Workshops in 2017 were held in Alabama, Idaho, Maryland, Massachusetts, New York, Pennsylvania, Texas, Utah, and Wisconsin, since SM17 a number of professional development opportunities have been presented. Those presented since the summer 2017 board meeting include:

- The Math for America program hosted three workshops in New York City as part of the relationship that has been established with PTRA. Funds were sent to AAPT and added to the PTRA Continuation Fund.
- University of Pittsburgh – Johnstown Campus hosted two short workshops to serve Physics teachers from Western PA. Workshop registration fees were sent to AAPT and added to PTRA Continuation Fund.
- Misericordia University in Dallas, PA was the location for the annual Central PA section of AAPT Fall workshop. Workshop registration fees were sent to AAPT and added to the PTRA Continuation Fund.
- The Northeast Regional AAPT meeting, hosted by Syracuse University, brought together teachers from New England, New Jersey and New York. Workshop registration fees were sent to AAPT and added to PTRA Continuation Fund.
- The University of Texas at Dallas hosted the APS/SPS/TSAAPT meeting in October. Texas Section PTRAs provided five workshops during the meeting. The fee charged was between \$2 and \$5 so there was minimal income however, the TSAAPT donated funds last spring to help support the PTRA efforts by providing supplemental resources to Texas PTRA who have helped provide workshops to their section meetings.
- Houston TX was the site for the state science conference in November, Texas Section PTRAs provided 13 workshops to over 400 teachers at the conference (CAST). One session was a short course (i.e. fee based) but the others were free and designed to give participants a sampling of what can be provided for longer periods of time for a fee.

Summer 2018 workshops are currently being planned and will include two week long workshops in Texas. These workshops will be fee based (\$350) and will focus on using curricular materials developed by Perimeter Institute and the Institute for Quantum Computing. Both of these institutions have partnered with PTRA over the past several years in development of these resources and providing content background to facilitate PD efforts.

The subcommittees organized last Spring (Funding, Outreach Workshops, Workshop Documentation, Recruitment, and AAPT Connections and Communications) have continued to work to assist planning and decision making for the program. A significant decision made by the Oversight Committee during SM17 was to open up PTRA leadership eligibility to college and university personnel with direct contacts to K-12 teachers. In the past PTRA leaders were required to be K-12 teachers when they started their involvement with the program. The guidelines for this change will be discussed at the WM18 Oversight Committee Meeting.

Directors Report 1.8.17

Report submitted to the board has updates on Fall workshops, numbers, etc.

Additions to the board report:

1. Updates are being submitted monthly to the eNNOUNCER
2. A report was filed by Duane Merrell regarding affiliate membership benefits vs. program benefits. The report contained summaries of input from board members. Currently we are still considering options.

Summer 2018 PTRAs leadership institute plans tentatively include:

Updates from Perimeter Institute and IQC
Developing a partnership with PIRA/ALPHA for PD and curriculum
Potential workshops for acoustical and optical societies
Development of resources appropriate for workshops or Digikits

Applications for summer institute will open Feb 1 and will be open to K-16 teachers and faculty.

For Oversight Discussion and Action:

- Requiring a minimum of \$250 contribution to PTRAs continuation fund from PTRAs activities within last two years in order to receive a travel stipend to the leadership institute.
- PTRAs wishing to attend the summer institute must have provided a minimum of 6 hours of workshops in the past two years. If not, there will be a \$200 participation fee to attend the institute. Documentation will be required if not already posted on the PTRAs website.
- PTRAs are not required to register for the AAPT meeting before attending the summer PTRAs institute.

Other items:

The website is being revised on a separate page and will continue to be something Karen Jo will work on in her spare time so it is more appealing and visible.

Words cannot express our appreciation to Pat Callahan for his investment in PTRAs, especially as chair for the past 6 years. There have been some real challenges and we would likely not still be here if not for his guidance and help.

We welcome Jill Marshall as the new chair. Jill has been a PTRAs friend for many years and knows many of the challenges that have been faced. Her experience on the board and with PTRAs will be valuable in helping direct future activities and plans.

AMERICAN ASSOCIATION OF PHYSICS TEACHERS
 PTRA CONTINUATION FUND - E5045
 Oct-17

BALANCE SHEET

ASSETS

INVESTMENTS	\$181,229.63	
<i>TOTAL ASSETS</i>		<u>\$181,229.63</u>

LIABILITIES & FUND BALANCE

RESTRICTED		
TEMPORARILY RESTRICTED	<u>\$181,229.63</u>	
	\$181,229.63	Balance at
NET INCOME	\$(17,934.99)	12/31/2016
<i>TOTAL LIABILITIES & FUND BAL.</i>		<u>\$163,294.64</u>

INCOME STATEMENT

INCOME

500000	CONTRIBUTION		
500001	ANNUAL GIVING	\$3,344.00	
500300	ADVERTISING		
500800	DUES ALLOCATION		
501200	REGISTRATION		
501400	SPECIAL EVENTS		
501500	WORKSHOPS	\$2,360.00	
502400	PUBLICATIONS	\$-	
	DORM ROOM REVENUE	\$-	
504200	REIMBURSEMENT	\$520.00	
504300	GRANT RECEIPTS		
	<i>TOTAL INCOME</i>		<u>\$6,224.00</u>

EXPENSES

600000	SALARY	\$580.97
600100	SALARY NOT AAPT STAFF	\$-
600200	BENEFITS	\$0.21
600300	BENEFIT NOT AAPT STAFF	\$-
600400	SUPPLIES	\$2,360.83
600500	POSTAGE & SHIPPING	\$674.85
600600	TELEPHONE	\$-
600700	PHOTOCOPYING & PRINTING	\$-
601500	AWARD	\$-
601560	CONTRIBUTIONS-CORPORATE	
601600	COMPLIMENTARY	
601700	COMPUTER SOFTWARE/MAINTENANCE	\$-
602050	HONORARIA	\$5,110.00
602300	INSURANCE	\$-

602500	MARKETING	
602750	EXHIBIT FEES AND EXPENSES	\$-
603100	PROFESSIONAL FEES	\$-
603300	REGISTRATION FEES CONF/SEM	\$-
603400	SPECIAL EVENTS	\$-
603500	WORKSHOPS	
603800	TRAVEL	\$6,743.74
603810	TRAVEL-LODGING	\$3,789.16
603850	TRAVEL-MEALS	\$11.61
603900	PARTICIPANT SUPPORT TRAVEL	\$-
604000	PARTICIPANT SUPPORT SUBSISTENCE	\$2,400.00
604300	SUBCONTRACT	\$-
604400	CONSULTING FEES	\$-
608200	EDITORIAL OFFICE	\$-
	Tempory help	\$-
608900	INVESTMENT EXPENSE	\$1,198.07
609600	ROYALTY EXPENSE	
609700	AUDIO VISUAL	\$-
701000	MISCELLANEOUS:	\$-
702700	FACILITY EXPENSES	\$-

<i>TOTAL EXPENSES</i>		\$22,869.44
<i>NET INCOME BEFORE INVESTMENT ACTIVITY</i>		
		<u>\$ (16,645.44)</u>

500100	INTEREST INCOME	\$-
500150	DIVIDENDS	\$(3,132.61)
500160	UNREALIZED CAPITAL GAINS	\$(151.73)
500200	CAPITAL GAINS/LOSSES	\$-
800000	INDIRECT COSTS	\$4,573.89
800100	UNREIMBURSED INDIRECT COSTS	\$8,376.86

<i>TOTAL INVESTMENT ACTIVITY</i>		\$1,289.55
<i>NET INCOME</i>		<u>\$ (17,934.99)</u>

20% of Direct Costs are charged as Administrative Fee/Indirect Costs

800100 - Amount is not included to calculate net income

PTRA Budget 2018

		ANNUAL BUDGET
		<u>T</u>
INCOME		
WORKSHOP	Section meetings, etc	3,000
	Donations	2,000
TOTAL INCOME		5,000
EXPENSES		
SALARY	Janet Lane	2,000
EMPLOYEE BENEFITS	Janet Lane, Tiffany Hayes	200
SUPPLIES	materials/resources for sites needing equipment support	3,000
POSTAGE & SHIPPING	for summer leadership and sites needing equipment support	2,000
Promotional item and Advertising	as approved by OC	3,000
HONORARIA	Support for new sites; approved by OC	30,000
	Support for NSTA presentation, etc	3,000
	Propose setting up institute using Perimeter Materials, charge fee to attend, make a national site	35,000
Set up Perimeter Institute		
PTRA Director Discretionary Funds	as approved by OC	5,000
PTRA Leadership Conference	as approved by OC	30,000
		-
TOTAL EXPENSES		113,200

Notes from John Roeder concerning meetings with Wolfgang Christian re: PTR A Resource revisions

Reflections on meeting with Wolfgang Christian, 10 November 2017:

Before meeting with Wolfgang, I had hoped to learn from him, as AAPT Secretary and Chair of the AAPT Publications Committee, whether the Publications Committee would view favorably the revision of *Teaching About Energy* which I had proposed as a way to follow through on repeated talk about the need to update the PTR A Resource materials. Because he felt that AAPT publications are in a state of flux, he was not able to give me a straightforward answer to my question, but he did respond that there were several options and that the revision didn't all have to be done at once, although AAPT, as publisher of the first edition, would have first rights of refusal for a new edition. One option would be mounting materials as pdfs on ComPADRE.

Because I had seen what I had proposed for revising *Teaching About Energy* as part of an overall revision of PTR A materials, I had thought of doing this through the same route that the original PTR A materials had taken. Then, early the next morning, an idea occurred. I had been using a template for a 5E lesson to teach each of the NGSS Performance Expectations related to energy in physical science for both middle and high school, and these would form the central core of my proposed revision, with most of them incorporating the activities in the original edition and some new activities I had added. What if, instead of publishing all these together in a revised book, I mounted each 5E lesson plan and the relevant activities as a pdf on ComPADRE? If I did this, PTR A workshop leaders and teachers could access just exactly what they needed to teach a given Performance Expectation. This could also be done for the other physical science performance expectations, referencing relevant activities in other PTR A materials rather than conducting a wholesale revision of all of them. Then PTR A workshop leaders and teachers could access a 5E lesson plan to teach all the NGSS Performance Expectations.

But one other thing which Wolfgang said gave me pause about this. I'm not sure that I understood it correctly, but it seemed that PTR A had wanted to post its materials as pdfs on ComPADRE, and the AAPT board said "no." But if the 5E lesson plans and activities from PTR A materials to implement them constitute "new material," would the copyright restrictions on the original material still hold?

From: Christian, Wolfgang <wochristian@davidson.edu>

To: John Roeder <jlroeder@aol.com>

Cc: Christian, Wolfgang <wochristian@davidson.edu>

Sent: Sun, Nov 12, 2017 10:25 am

Subject: Re: Thanks for yesterday

Dear John—

...

Releasing PTR A material under a creative commons non-commercial license (<https://creativecommons.org/licenses/>) seems like a good idea since it will lower the cost for teachers and might increase distribution. You can use a non-commercial license so that authors or the PTR A organization can sell the material if there is a market. You cannot release current manuals because AAPT owns that copyright but you should be able release new editions and you can always release material that is not copyrighted by AAPT. The AAPT does NOT own the copyright to new material, such as your lesson plans tied to the national standards.

The PTR A leadership will need to decide if ComPADRE is the right platform. PTR A could release material on their own site but the Physics Front is already set up to host this type of material.

<https://www.compadre.org/precollege/>

If PTR A uses ComPADRE, you should get Bruce Mason to give a presentation to the PTR A leadership on how to make good use of ComPADRE tools, such as filing cabinets, to organize material. You will probably also need a PTR A resources editor who has overall responsibility for uploading and organizing the material.

A hybrid distribution approach is also possible. (This is what I use.) Put PTR A material into ComPADRE but also have links to ComPADRE items on the PTR A website and explore non-AAPT distribution channels such as Create Space. It's a brave new world with a lot of possibilities.

Best,

Wolfgang

PS: Amazon owns Create Space and anything that is uploaded to Create Space automatically appears in the Amazon store. Unlike AAPT, the author retains full rights to the material (Amazon is only the author's agent). An author can still publish and distribute the material on other sites.

<https://www.createspace.com/>

From: "jlroeder@aol.com" <jlroeder@aol.com>
Date: Saturday, November 11, 2017 at 11:11 PM
To: wc <wochristian@ davidson.edu>
Subject: Thanks for yesterday

...

You worry too much. How much of the narrative is "new" when a new edition of a book, like Giancoli, is published? How likely is it that AAPT would claim that you had violated the existing copyright if you distribute new material that builds on and improves existing material?

I am not a lawyer, but there isn't enough money involved for it to make sense for anyone to do anything to hinder the development of new and better PTRA manuals. I would package the NGSS based lesson plan and the relevant activity together as part of the new edition of your PTRA manual and get that material out and about for review and classroom testing without calling attention to what is new and what is existing. I would just do it if it were my material. Should AAPT object (unlikely) you can remove the material from the public site but you should still be able to distribute it privately to your collaborators. Collaboration and sharing is how most new material is created.

As I understand it, a PTRA manual meets the legal definition of a new edition if roughly 30% is new. Comparing the TOC of your existing and proposed editions, it shouldn't be too hard to reach that threshold. Otherwise it would be called an updated edition, although I think commercial publishers play fast and loose with these definitions.

Wolfgang

From: "jlroeder@aol.com" <jlroeder@aol.com>
Date: Sunday, November 12, 2017 at 8:38 PM
To: wc <wochristian@ davidson.edu>, "kjmatsler@gmail.com" <kjmatsler@gmail.com>, "ptcallahan3537@gmail.com" <ptcallahan3537@gmail.com>
Subject: Re: Thanks for yesterday

One sticky wicket is that some of the new lesson plans refer to activities in the original book, although several of them were posted to ComPADRE prior to publication of the book by Jim Nelson. Do you know to what extent those activities would have to be revised to be considered "new"?