



American Academy of Health Physics  
American Board of Health Physics

# N · E · W · S

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## THE STATE OF OUR ACADEMY

*Robert Miltenberger, CHP, President*

When you take office in late January or early February, a year seems like an eternity and so much can be accomplished. By October, when this address is written, the year has flown by and the committees have been the ones who have accomplished things. I guess that is the role of management, stay out of the way and let those who can get the job done do so.

All that said, I'd like to express my thanks and appreciation to the committee members and chairs who actually do the work of the Academy, the Executive Committee, the past-president, Ed Bailey, and, of course the glue that holds the whole group together, Nancy Johnson, the Program Director.

We are fortunate to have Kent Lambert as the incoming President for 2016 and Kyle Kleinhans as President-Elect. Kent has recruited the necessary chairpersons and committee members to assure that things run smoothly in 2016.



What constitutes the state of an organization depends heavily on what each member views as essential to the organization. In 2015, some necessary business was either addressed or will be addressed by the conclusion of the 2016 mid-year meeting. We have maintained accreditation by the Council of Engineering and Scientific Specialty Boards, the Executive Committee has approved (and CHPs have been notified) of the new continuing education credit structure. We have reviewed the contract with Burk Associates Inc. and updated the contract. After review with BAI in January, we plan on extending the current contract. We are also in the process of updating some procedures so that the title of "Program Director" is used uniformly to identify the person and role of the job currently held by Nancy Johnson. Finally, we have negotiated with IRPA a path forward for Kent Lambert to complete a project on international recognition of ABHP certification.

The membership in the organization has remained relatively constant over the past 8 years, at about 1300 comprehensive CHPs. However, the number of CHPs in the emeritus and deceased categories has increased by 52 and 55 respectively. This pretty much balances out the number of newly certified HPs. Regarding interest in being a CHP, about 300 people each year have applied to take the exam over the past 8 years. About 130 people take Part 1 of the exam each year and about 90 people take Part 2 each year. About 90 people, or 30% of the applicants, decide not to take the test each year.

The commitment to the AAHP and ABHP, as measured by the willingness of members to volunteer, is outstanding. Finding volunteers for committee appointments continues to be a rewarding experience because people are willing to give up their personal time to assist the AAHP and the ABHP.

The finances of the Academy are in great shape. The Academy has about \$900,000 in total funds distributed between cash, short-term and long-term investments. This amount and the management of the finances meets the goals of the AAHP procedures and policies.

The AAHP *Special Session on Professional Ethics* was very well attended and the speakers provided great insight on some of the common problems faced by professionals in today's work place. Likewise, the AAHP-sponsored PEP sessions remain well attended.

All of the above suggest an organization that is in good health. While I believe this to be true, I'd like to point out two areas of growth opportunity. The first is in acknowledging newly certified members. Each year, the AAHP holds a lunch at the break in the AAHP Special Session. Few newly certified professionals are in attendance and many of us, for whom the certification process is a distant and hopefully never to be repeated memory, choose not to attend. I'd like to see this change. The room should be overflowing to recognize both the newly certified and those who volunteered their time on committees and exam panels.

The second growth opportunity is in the arena of differing opinion. As Ed Bailey mentioned in last year's report, we have had an increase in people alleging unethical conduct of CHPs when the issue is really a difference of opinion. Many years ago, I used to sit at HP meetings and listen to two CHPs vigorously debate technical matters in a public forum and then be able to go to the local watering hole afterward and enjoy the company of each other, recognizing that they had differing opinions but the debate was essential for the health of the organization. I believe that we need to go back to those days which embrace counter-opinions as healthy for the organization.

I'd like to conclude this report by discussing several activities that are the responsibility of the President and then the Past-President. The first activity is participation in a panel composed of members from the American Nuclear Society, the HPS, academia and several utilities on an approach to communicate risk from radiation to the public in a

manner that is honest and clear. To a large extent, this working group was formed as a result of articles in the commercial press that recommended foregoing medical diagnostic protocols due to the radiation dose. The risk was communicated but the benefit was not as well understood by the public. While a final report has yet to be completed, the group did develop a comprehensive evaluation of the benefits of radiation and some ideas on better methods of communicating risk and benefit.

In a second activity, we were asked to review a proposal made by the NCRP to investigate a new way to determine radiation risk in the low-dose range. At present, this is only a proposal, but it could eventually help to resolve the age-old debate of LNT or no LNT.

Lastly, allow me to tweak your interest in the 2016 AAHP Special Session. This year, the topic is nuclear weapons. With some of the veterans of the nuclear weapons laboratories approaching “retirement”, and most of the membership having not lived through the cold war and weapons tests, it seemed a perfect time to review the basics of how nuclear weapons work, the types of damage they can cause, why there is so much money on maintenance, and some downwind impacts. Please set aside Tuesday, 19 July 2016, to join me for this informative set of presentations.



**ABHP EXAM APPLICATION REMINDER**

Stop procrastinating! Applications to take either part of the 2016 ABHP examination must be filed with the Secretariat, and postmarked **no later than 15 January 2016**.

Application information may be found [here](#).

**CALL FOR NOMINATIONS - 2016 Joyce P. Davis Memorial Award**

*Timothy Taulbee, Chair of the Professional Standards and Ethics Committee*

The American Academy of Health Physics (AAHP) established the Joyce P. Davis Memorial Award in recognition of her dedication to the advancement of health physics and her humanitarian efforts to uphold the ethics of the profession. In her honor, the AAHP provides this award in recognition of those Certified Health Physicists that maintain high professional standards and ethics in their careers.

December is a great time to start thinking about those individuals in the Academy who possess these great qualities of high professional standards and ethics, so that they may be recognized at next year's meeting in Indianapolis. During this season, and into the New Year, I encourage all members to nominate a deserving member of AAHP for this prestigious award. Any member of the Academy can make nominations. The recipient of this award should demonstrate excellence in professional achievement as well as being admired for ethical behavior and interpersonal skills. This award focuses more on professional work in health physics, whereas the William McAdams Award focuses more on service to the AAHP and the Board.

The previous recipients of the award are:

- John P. Kelly, 2002
- James E. Tarpinian, 2004
- Carol D. Berger, 2006
- Howard W. Dickson, 2008
- Frazier Bronson, 2010
- Bryce Rich, 2014

The eligibility requirements are:

1. A member of the AAHP for at least 10 years,
2. A champion of professional standards and ethics, and
3. Exemplary professional service to the AAHP or the American Board of Health Physics.

Nominating a deserving member of the AAHP is not difficult and only requires the following:

1. A nomination letter
2. A brief biographical resume of the nominee's career
3. A description of their service to the profession and the AAHP, and
4. At least three reference letters in support of the nomination from other AAHP members.

Nominations need to be submitted to the AAHP Nominating Committee (the 2015 Chair is Dale Thomas, e-mail [dale.thomas@moellerinc.com](mailto:dale.thomas@moellerinc.com)) on or before 01 March 2016. The Selection Committee for this distinguished award comprises the AAHP Professional Standards and Ethics Committee 2015 Chair, the Past President of the AAHP, and the Past Chairman of the ABHP.

The award will be presented at the AAHP Awards Luncheon during the 61<sup>st</sup> Health Physics Society in Spokane, Washington in July 2016.

**THE 2015 CHP SALARY SURVEY**

*Gary Lauten, CHP*

The annual salary-survey data was collected by having CHPs submit their responses to questions on a web- based data entry form. As was done in previous years, this data was collected in conjunction with a salary survey of the entire Health Physics Society.

The salary ranges marked by CHPs on the completed survey forms were rounded to the midpoints of those ranges before statistical analyses were performed. For example, if a CHP marked the salary range \$100,000 to \$102,499, his or her salary was rounded to the midpoint value of \$101,250.

Responses from CHPs who were either part time or retired were not analyzed, since the data did not allow meaningful comparisons to be made.

To minimize skewing the results, data from nine survey respondents were excluded from the analysis because they indicated that they earned less than \$62,500 or more than \$205,000 per year.

57 respondents reported receiving a significant (10% or more) salary increase upon attaining ABHP certification. Of these, 25% received this increase from their current employer, 26% from a promotion with their current employer, 47% received this increase from a new employer, and 2% from part-time consulting. 137 CHPs (71% of those responding) indicated that they did not receive a significant salary increase upon attaining certification.

In an effort to make the results of the survey interesting and useful, CHPs were subcategorized by education, primary job responsibility, years of experience, and combinations of these subcategories.

Readers are advised that, for statistical validity, results were given only if there were 10 or more CHPs within that subcategory. This means that subcategories in the following tables may change from year-to-year, depending on the number of responses received.

The tables show results for full-time CHPs who received health, vacation, and retirement benefits from their primary employer, unless otherwise noted.

Histograms of the data shown in Table 1- All CHPs, and Table 2 - Masters Health Physics are included as Figures 1 and 2 respectively.

**Table 1: All CHPs**

	<b>Count</b>	<b>Average</b>	<b>Median</b>	<b>Max</b>	<b>Min</b>	<b>Std Dev</b>
CHPs	201	\$132,606	\$131,250	\$203,750	\$63,750	\$29,370

**Table 2: CHPs by Education and Field**

	Count	Average	Median	Max	Min	Std Dev
Bachelors Health Physics	12	\$124,375	\$128,750	\$158,750	\$71,250	\$24,194
Bachelors Other Field	21	\$118,988	\$113,750	\$156,250	\$83,750	\$19,380
Masters Health Physics	89	\$134,452	\$136,250	\$196,250	\$63,750	\$30,250
Masters Other Field	24	\$134,688	\$131,250	\$203,750	\$68,750	\$32,992
Masters Nuclear Engineering	12	\$127,917	\$130,000	\$198,750	\$83,750	\$35,264
Ph.D. Health Physics	19	\$140,461	\$138,750	\$203,750	\$101,250	\$27,488
Ph.D. Nuclear Engineering	12	\$141,667	\$142,500	\$188,750	\$101,250	\$31,548

**Table 3: CHPs by Education and 6-15 Years Experience**

	Count	Average	Median	Max	Min	Std Dev
CHPs 6-15 yrs	24	\$107,083	\$101,250	\$148,750	\$71,250	\$18,396

**Table 4: CHPs by Education and >15 Years Experience**

	Count	Average	Median	Max	Min	Std Dev
All CHPs >15 yrs	173	\$136,207	\$133,750	\$203,750	\$63,750	\$28,678
Bachelors Health Physics	10	\$130,750	\$131,250	\$158,750	\$96,250	\$18,552
Bachelors Other Field	19	\$121,776	\$116,250	\$156,250	\$98,750	\$17,692
Masters Health Physics	75	\$138,883	\$141,250	\$196,250	\$63,750	\$29,603
Masters Nuclear Engineering	11	\$127,841	\$131,250	\$198,750	\$83,750	\$36,984
Masters Other Field	23	\$136,576	\$131,250	\$203,750	\$68,750	\$32,380
Ph.D. Health Physics	15	\$148,250	\$146,250	\$203,750	\$106,250	\$24,770

**Table 5: CHPs by U.S. Regions\***

	Count	Average	Median	Max	Min	Std Dev
Northeast	31	\$128,266	\$128,750	\$186,250	\$68,750	\$26,906
Midwest	27	\$133,843	\$131,250	\$188,750	\$96,250	\$26,316
South	67	\$129,646	\$131,250	\$203,750	\$63,750	\$29,627
West	49	\$135,740	\$131,250	\$203,750	\$76,250	\$29,007

\*The four major regions of the United States as defined by the U.S. Census Bureau for which data are presented represent groups of states as follows:

**Northeast:** Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont.

**Midwest:** Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin.

**South:** Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia.

**West:** Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

**Table 6: Masters Health Physics and Primary Employer**

	Count	Average	Median	Max	Min	Std Dev
Federal Government	17	\$133,456	\$141,250	\$163,750	\$98,750	\$23,266
Medical	10	\$152,500	\$143,750	\$196,250	\$118,750	\$25,934
University	12	\$102,083	\$96,250	\$181,250	\$63,750	\$37,406
National Laboratory	12	\$143,333	\$145,000	\$188,750	\$98,750	\$28,261
Government Contractor	16	\$140,313	\$135,000	\$183,750	\$98,750	\$25,591

**Table 7: All CHPs by Other Certifications**

	Count	Average	Median	Max	Min	Std Dev
NRRPT	33	\$132,153	\$125,000	\$203,750	\$71,250	\$31,249
Other	29	\$136,940	\$131,250	\$198,750	\$76,250	\$29,406

**Table 8: Masters Health Physics and Primary Job Responsibility**

	Count	Average	Median	Max	Min	Std Dev
Administration	11	\$157,841	\$168,750	\$183,750	\$88,750	\$28,663
Applied Health Physics	29	\$126,250	\$123,750	\$188,750	\$63,750	\$34,872
Dosimetry	11	\$135,114	\$131,250	\$176,250	\$98,750	\$20,383

**Table 9: All CHPs by Primary Job Responsibility**

	Count	Average	Median	Max	Min	Std Dev
Administration	23	\$148,207	\$156,250	\$203,750	\$88,750	\$31,721
Applied Health Physics	61	\$126,127	\$123,750	\$188,750	\$63,750	\$28,905
Dosimetry	17	\$126,103	\$128,750	\$176,250	\$91,250	\$23,141
Environmental	14	\$135,000	\$132,500	\$203,750	\$98,750	\$26,526
Instrumentation	10	\$121,500	\$121,250	\$158,750	\$83,750	\$26,574
Medical Health Physics	13	\$154,327	\$146,250	\$198,750	\$101,250	\$31,953

Power Reactor	11	\$138,295	\$133,750	\$171,250	\$113,750	\$20,488
Regulations/ Standards	15	\$136,917	\$133,750	\$183,750	\$68,750	\$30,066

**Table 10: CHPs as Professional Staff by Education**

	Count	Average	Median	Max	Min	Std Dev
All CHPs in this Category	107	\$127,442	\$126,250	\$198,750	\$68,750	\$25,646
Bachelors Other Field	13	\$118,750	\$113,750	\$146,250	\$98,750	\$14,506
Masters Health Physics	43	\$130,901	\$136,250	\$181,250	\$71,250	\$25,557
Masters Other Field	11	\$122,841	\$123,750	\$171,250	\$68,750	\$28,002
Masters Nuclear Engineering	10	\$132,500	\$132,500	\$198,750	\$83,750	\$37,104

**Table 11: CHPs as Supervisor of Professional Staff by Education**

	Count	Average	Median	Max	Min	Std Dev
All CHPs in this Category	37	\$136,993	\$133,750	\$176,250	\$91,250	\$23,481
Masters Health Physics	19	\$140,329	\$143,750	\$173,750	\$91,250	\$24,724

**Table 12: All CHPs as RPM/RSO, University RSO, Medical RSO**

	Count	Average	Median	Max	Min	Std Dev
All CHPs RPM/RSO	18	\$142,361	\$156,250	\$203,750	\$83,750	\$38,798
All CHPs University RSO	13	\$108,558	\$103,750	\$171,250	\$63,750	\$30,164
All CHPs Medical RSO	12	\$152,500	\$143,750	\$196,250	\$108,750	\$30,591

Figure 1: Histogram of Table 1 Data, all CHPs

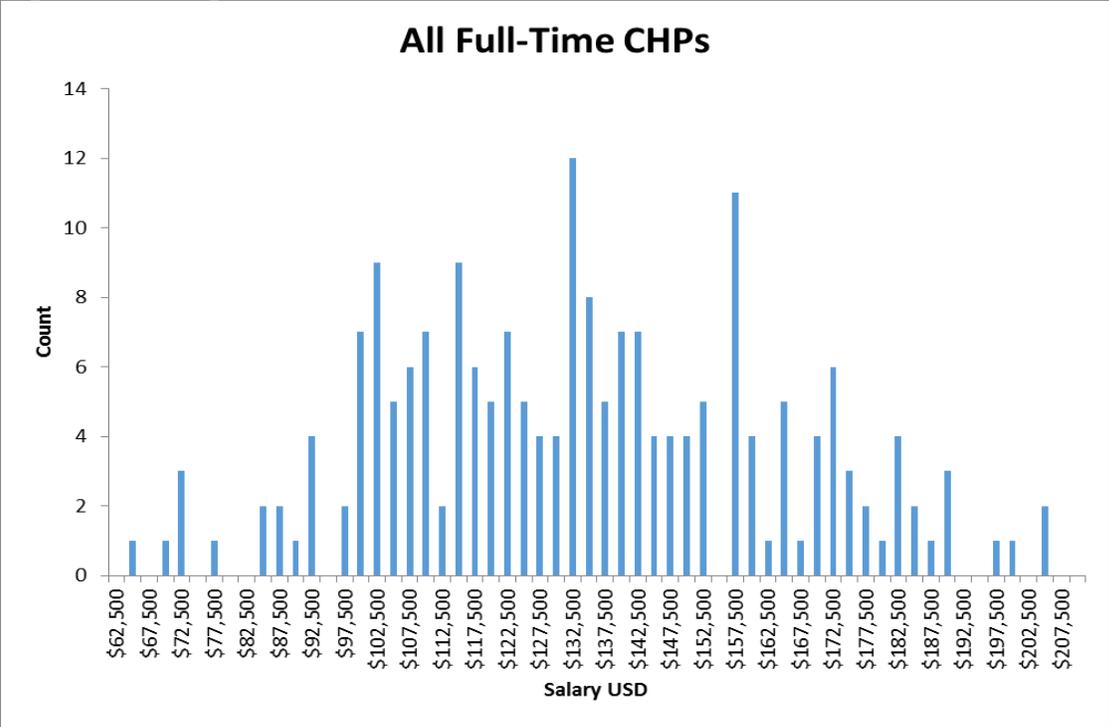
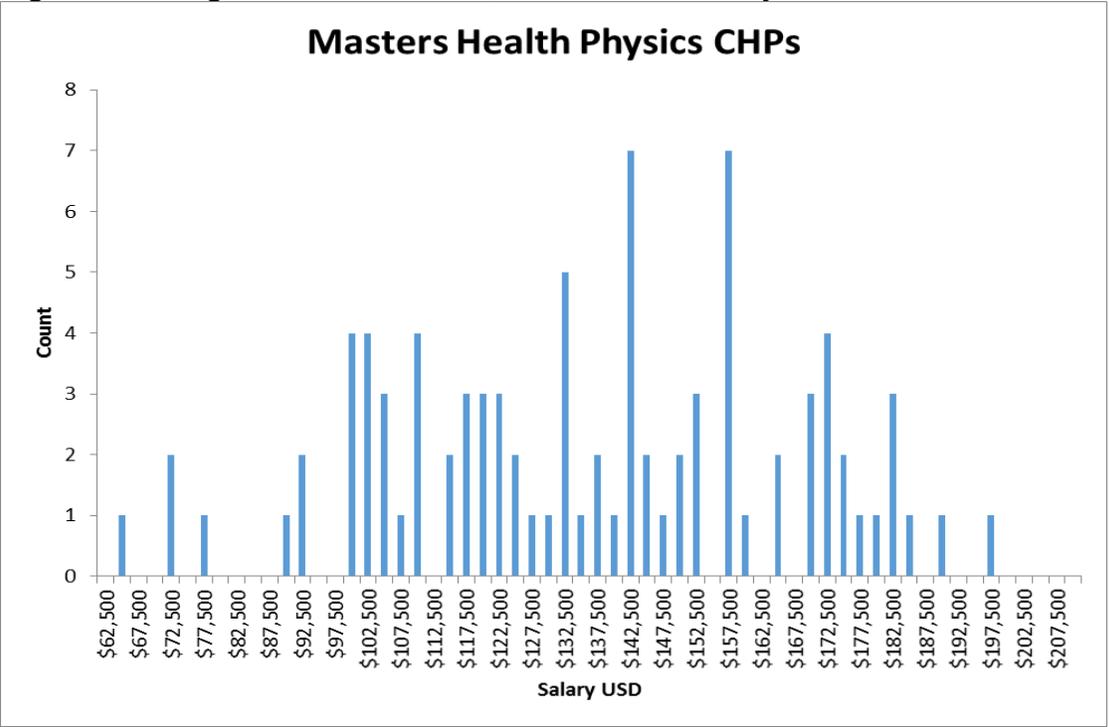


Figure 2: Histogram of Table 2 Data, Masters Health Physics CHPs



Thank you for participating in this survey. Your confidential data benefits the entire health physics community, and is never shared such that it would be possible to identify individuals.

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Richard Adams, ('16)  
Matthew Arno, ('19)  
Wes Boyd, ('16)  
William Bullard, ('18)  
Michael Campbell, ('18)  
Jeff Chapman, ('17)  
Kathleen Dinnel-Jones, ('19)  
Daniel Evans, ('19)  
Gerald George, ('16)  
Tom Hansen, ('17)  
Gregory E. Jones, ('19)  
Chris Kessler, ('16)  
John Kinneman, ('19)  
Mark Krohn, ('19)  
Henry Lynn, ('17)  
William McCarthy, ('17)  
Allen Mabry, ('17)  
Joseph McDonald, ('18)  
Hans Oldewage, ('16)  
Clifford Stephan, ('18)  
Johnafred Thomas, ('18)  
William Uhland, ('18)  
Betsy Ullrich, ('16)  
Toshihide Ushino, ('16)  
Latha Vasudevan, ('18)  
Wei-Hsung Wang, ('19)

**AAHP EXECUTIVE COMMITTEE MINUTES**  
**Sunday 12 July 2015 - Indianapolis, Indiana**

**1.0 Call to Order**

The meeting of the Executive Committee of the American Academy of Health Physics was called to order on 12 July 2015 in Indianapolis, Indiana by President Miltenberger at 8:35 AM.

**2.0 Welcome to Members and Guests**

A general welcome to the meeting was provided by President Miltenberger to the following meeting attendees:

Name	AAHP Position or Affiliation
Robert Miltenberger	President
Kent Lambert	President-Elect
Edgar Bailey	Past President
Steven Brown	Treasurer
Alan Jackson	Secretary
Louise Buker	Director
Kyle Kleinhans	Director
Alex Boerner	Director & Past Treasurer
Jim Stafford	Parliamentarian
Nancy Johnson	Secretariat-Program Director/AAHP Executive Secretary
Jim Willison	Continuing Education Committee Chair / Assistant Webmaster
Mark (Andy) Miller	HPS Liaison
Pat LaFrate	ABHP Chair, Ex-Officio
Nora Nicholson	Liaison to CESB/ABHP
Edwin M. Benfield	Liaison to NRRPT
Sarah Hoover	Appeals Committee
William Irwin	Liaison to CRCPD

**3.0 Discussion and Approval of Agenda**

Stafford indicated that a quorum was present. Miltenberger asked if there were any additions or deletions to the agenda. There were none.

Motion	Moved & Seconded by	Discussion	Result
Accept Agenda	Lambert, Buker	None	Carried

**4.0 Approval of Minutes of February 2015 Meetings**

Miltenberger asked if there were any additions or deletions to the minutes. Buker had some grammatical errors. These were no substantive changes, and she provided her comments in a written form to Jackson. Jackson indicated he would correct the minutes accordingly.

Motion	Moved & Seconded by	Discussion/Action	Result
Accept Minutes from February 1, 2015 Norfolk, Virginia meeting as corrected	Lambert, Boerner	None	Carried

**5.0 Reports of 2015 Officers**

**5.1 President – Robert Miltenberger**

Miltenberger highlighted items from his full written report which is contained on page 17 of the meeting packet. One item was finding a replacement for Lambert’s IRPA working group appointment. Miltenberger recently sent an e-mail to Barbara Hamrick regarding this matter but has not gotten back a response. Miltenberger hopes that resolution could be reached at Bailey’s special session. Brown asked whether this appointment was about international certification and Miltenberger confirmed that was the case.

Miltenberger reported that the interactions with the Joint Commission (TJC) had a favorable outcome.

Miltenberger indicated that Item 9 arose out of a request from Rebecca Marsh, a diagnostic imaging physicist with the American Association of Physicists in Medicine (AAPM), which asked whether AAPM could lend support to the “Ask the Experts” (ATE) section on the HPS website by linking to it and providing experts to answer questions (note: this is a correction, it is AAPM not ABMP as written in item 9). Miltenberger thought this was a good opportunity to promote positive interactions between societies. Lambert noted that he has a role in ATE and forwarded the request to Gen Roessler, who viewed this idea favorably.

Miltenberger noted that we were asked to review NCRP-SC-21 commentary, which would treat radiation risks in an analogous manner as to chemicals. Miltenberger reported the approach seemed reasonable and he reviewed this favorably.

Miltenberger indicated that we paid for a meeting location in Albuquerque for the exam because a secure facility at Sandia was simply not available to the foreign nationals taking the exam. Miltenberger noted that there is a budget available for this cost.

**5.2 President - Elect – Kent Lambert**

Lambert described highlights of his written report, which is contained on page 19 of the meeting packet. Lambert indicated that his main duty is to nominate committee members, and these nominations are contained in his report. These three-year terms begin on 31 January 2016. Lambert had an addition to the nominations in his report which is to add Cheryl Olson. Olson

would be an alternate for the Nominating Committee.

A question arose regarding the nominations for individuals wearing multiple hats with both ABHP and AAHP. Stafford reported that none of the current nominations appear to run afoul with our by-laws.

Lambert noted that he participated in the finance committee meeting.

**5.3 Past President – Ed Bailey**

Bailey described highlights of his written report which is contained on page 20 of the meeting packet.

Bailey was asked by Barbara Hamrick (President of HPS) to serve as the HPS liaison to CRCPD; replacing Earl Fordham who is now on the CRCPD board. Bailey agreed because a change in suggested state regulations could essentially shut health physicists out of traditional areas of practice, especially in medicine. Lambert asked Bailey to pay particular attention to the definition of a Qualified Medical Physicist.

Bailey discussed the special session he organized on professional ethics. This special session is in a different format when compared to the first speaker, Alexander Brandl. Brandl is giving a tutorial on ethics. Bailey thought that Brandl’s lecture could easily become a CEC lecture in the future.

Lambert noted that the glossary on the HPS website defines HP expertise in ionizing radiation, which effectively perpetuates a myth that HPs do not deal with non-ionizing radiations. Lambert asked for HPS to change this definition. Miller will look into updating this glossary.

Andy noted that ACR has a paper regarding magnetic resonance imaging safety which might lend itself well to updating our bank of ABHP exam questions.

Miltenberger asked what membership with CRCPD would accomplish. Bailey indicated that this provides special access. Miltenberger wanted to know if there would be a benefit for AAHP to become a member of the CRCPD organization. Would it help with title protection or professional recognition? Would it help to bring continuity? Would it essentially give us more influence? Bailey indicated that voting privileges depend on the type of member. Miltenberger wanted to know if we should pay for membership to CRCPD for title protection. Miltenberger questioned as to whether we should make a new agenda item “CRCPD membership”.

Motion	Moved and Seconded by	Discussion	Result
Add “CRCPD Membership” as a new agenda item	Lambert, Bailey	None	Carried

**5.4 Secretary – Alan Jackson**

Jackson summarized his report that is contained on page 24 of the meeting packet. Jackson certified the election results in the packet and made some changes to the SOPs, as stated in his report.

**5.5 Treasurer – Steven Brown**

Brown reported that he attended the finance meeting in May. He noted that we continued to increase intermediate and long term assets on the order of 3-5% annually; now totaling \$825,150. The long and intermediate term securities were both rated in the “green” category in accordance with SOP 2.4.1. Also compliance with the investment policy 2.4.2 was achieved.

Miltenberger asked about paragraph 3 of section 5. Brown indicated that the Finance Committee was uncertain about the meaning of the term “Combined Annual Operating Budgets”. For example, are short-term assets included in this quantity? Boerner and Brown are planning to ask past-Treasurers about the historic usage of the term. Boerner and Brown also want to more clearly define this term so that there is no confusion moving forward.

Brown noted that the proposed operating budget is \$228,128 for fiscal year 2015-2016. Brown noted that the total assets are now \$898,721 and he was of the opinion that some thought should be given to how these assets could be strategically used to better support the Academy’s objectives.

**5.6 Parliamentarian – Jim Stafford**

Stafford provided highlights of his report which is found on page 37 of the meeting packet. He reviewed the three relevant SOPs and determined that no changes were needed. He updated GTTK 6.2.7 as described in his report.

The Executive Session minutes were approved, distributed and properly stored on the secure server. He sent out reminders to AAHP EC members regarding their reports and SOP reviews.

Motion	Moved and Seconded by	Discussion	Result
Receive the officers' reports	Lambert, Stafford	None	Carried

**6.0 Committee Correspondence and Reports**

**6.1 Appeals Committee – Sarah Hoover**

Hoover’s report is found on page 42 of the meeting packet.

Hoover discussed a recent phone call from a professor at Colorado State, seeking credit for student experience while working on a master’s degree. Miltenberger asked for elaboration. LaFrate indicated that the policy is intended to prohibit double counting of credit. LaFrate indicated that the review is subjective in-nature, and each case is individually assessed. He noted that the letter from the supervisor has to be very explicit and correctly categorize the work as professional in order to be eligible for credit. The candidate is the person responsible for appealing any decision; and no one else can appeal, including (as in this case) the professor. In this particular case the work experience was that of a graduate-teaching assistant which ordinarily does not qualify as professional experience. Hoover noted that she worked in a professional position at a university radiation safety office while attending graduate school part-time so her work experience counted. Willison noted that you essentially can’t acquire two years of work experience simultaneously, during a full-time master’s degree.

## 6.2 Continuing Education – Jim Willison

Willison's report is found on page 43 of the meeting packet (Section 11.3). Willison described the last 6 months as very busy. The committee reevaluated all posted activities for the calendar year 2013 and 2014 using the new evaluation criterion approved at the Norfolk meeting. The committee sent email notifications of CEU credit changes to individuals who made the original 2013 and 2014 requests.

The committee also dispositioned approximately 100 requests for evaluation.

Willison reported that yesterday's courses had 15, 30, and 15 students respectively which is down a bit, but pretty similar to previous years. Willison distributed a copy of the course packets from this year.

He has one course lined up for the future, and a number of other course ideas that are in the works.

Willison reported some confusion regarding the new course credits, so he briefed each course owner about the new system. Willison will also explain the scoring again in the next CHP corner. Willison reported a common confusion relates to the limits for one activity. Everyone understands that a single activity can only count up to half of the CEU required total. What is less well known is that CEL, PEP, and AAHP courses (as well as the technical sessions of the HPS meetings) are all separate activities. Willison hopes that HPS appreciates how valuable the meetings have become under the new scoring system (for obtaining CEUs).

Willison discussed the idea of putting an example of how credits are scored in the CHP corner.

Brown asked how the scoring system will be phased in. Willison noted that if your recertification period ends in 2015, then 64 CEUs are required. After 2015, 80 CEUs are required (but they are evaluated under the new criteria, which usually awards more points).

## 6.3 Exam Site - Williams

The report is found on page 44 of the meeting packet.

Johnson summarized the report. She indicated that the committee worked hard, got all of the exam sites properly ready, and all the other required tasks were completed efficiently.

## 6.4 Finance Committee - Boerner

Boerner's report is found on page 45 of the meeting packet.

The approval of the budget is conducted under new business, later in the meeting.

Boerner reminded the Executive Committee members about the significant revision to SOP 2.4.2, which permits 30% of our long and intermediate term accounts to be held in "alternative investments" (as defined in Boerner's report). Currently about 10% of the assets are in these "alternative investments".

The finance committee and others met on 12 May 2015, for the annual finance committee meeting, with the fund advisor Neal Abravanel (in McLean Virginia). Boerner noted that the contract performance bonus for BAI, which is a blank section in the budget, will be discussed in

the executive session. The budget shows a \$53K deficit but, by the end of the year, the actual gap is usually small because we typically budget for contingencies that rarely occur. Brown noted that, historically, we generally complete the year at \$30,000 to \$40,000 more than budgeted.

Miltenberger asked why the actual CHP fees are \$58,967 when, in previous years, it previously ran about \$90K. Brown noted this is the actual collections to date, and that more fees will be collected over the remainder of the year. Nancy also pointed-out that the difference between the fiscal year and calendar year are partially to blame, as an accounting correction is applied later to normalize this number.

### **6.5 Nominating Committee – Earl Fordham**

The report is found on page 50 of the meeting packet.

Fordham was unable to attend today, as he was at the IAEA in Vienna. Nancy noted the nominations are voted on in new business item 11.4. Bill Irwin offered to communicate any messages back to Fordham. Questions arose about the rankings and this discussion was deferred to the new business portion of the meeting.

### **6.6 Professional Development – Jan Johnson**

The report is found on page 86 of the meeting packet.

Johnson was not able to be present. Johnson asked the Executive Committee members to sit in the AAHP booth during the meeting; the updated brochure and fact sheet will be there to distribute.

### **6.7 Professional Standards and Ethics Committee – Tim Taulbee**

The report is found on page 87 of the meeting packet.

Nancy Johnson indicated that a person has to be nominated for the Joyce Davis award, and that few nominations are received. She noted that many assume the amount of work needed to make the nomination is time-consuming, but the form is pretty simple.

Miltenberger wondered if the nomination process is preventing nominations, or if the selection criteria are why there are so few nominations. He noted that the standards for professionalism have changed from those which were relevant in the 1950's. Miltenberger asked if this is a factor in the number of nominations.

Jim identified a discrepancy in the SOP and title on the name of the academy service award.

Johnson summarized the Joyce Davis award requirements. As an aside, Willison commented that the academy service award does not indicate the reason on the plaque. Bailey noted that the plaque lettering could be easily changed by making a change to the SOP.

### **6.8 Title Protection/Professional Recognition Committee – Steven Frey**

The report is found on page 88 of the meeting packet.

Miltenberger asked about the status of item 8. Lambert noted this issue was discussed during the midyear meeting and is contained in minutes of this packet. Miltenberger noted that the amendments to CLIA requirements were ultimately rejected. William Irwin noted that the CLIA

requirements were very restrictive and that a sub-specialty category may be an alternate route. Bailey noted that CLIA essentially requires an MD, or perhaps a PhD, because they view a bioassay as part of the practice of medicine; thus a CHP would not necessarily meet CLIA requirements. As the DOE requires CLIA accreditation, a CHP may not be able to be the head of a bioassay laboratory in the DOE system.

This is an issue for radiation disaster dosimetry services and regular occupational oversight work. Miltenberger asked Frey to inquire if there are ways in which CHP could have oversight authority over the limited scope of radiological bioassays.

## **6.9 Liaison Reports**

### **6.9.1 ABMP- Huda/Erdman/Sheetz**

No reporting at this time.

### **6.9.2 CRCPD- Earl Fordham**

Fordham was unable to attend, and William Irwin reported in his stead.

Irwin asked whether new CHPs are being listed in the CRCPD Qualified Medical Physicist registry. Nancy noted that no updated information has been sent since 2011; but that she could start sending information regarding new diplomates to CRCPD each year.

Bailey noted that AAPM provides substantial funding for this service and may object to adding the CHP data. Nancy indicated that the CRCPD database and her database were somewhat incompatible, in that the CRCPD database contained some information she does not ordinarily possess. Nancy asked Irwin or Fordham to provide her with the reporting requirements. Irwin indicated his report was sent quite recently to Nancy.

Irwin noted that CRCPD members volunteer in a substantial manner, amounting to some 8,877 hours.

Irwin discussed an upcoming meeting with the EPA and American Association of Radon Scientists & Technologists (AART). He also discussed the CRCPD partners of AAPM: ACR and ASTRO.

Irwin discussed the society's recent work, which includes the following: new medical technology, orphan sources, TENORM, national level exercises, EPA Report 14, Organization of Agreement States (OAS), NRC training programs, web-based licensing, decommissioning issues (including state's rights), decontamination medical prescriptions, security issues, the upcoming 47<sup>th</sup> conference, 10 CFR 20 rulemaking, radiological response software (Rad Responder), medical event reporting, homeland defense, foreign products, fracking wastes, national exposure medical radiation, and dental exposures. CRCPD also commented on FEMA's plans for nuclear detonation support.

CRCPD has a course regarding a "Radiological Operation Support Specialist" (ROSS). CRCPD has been recognizing that CHPs can fulfill a reasonably high-level ROSS designation, but also recognize individuals who have just passed Part 1 (albeit at a lower level). Irwin specified that this ROSS certification system has not been finalized.

CRCPD is also working on expanding and making connections with IAEA and HERPCA. A

discussion ensued regarding IND response. Jackson asked Irwin whether the CHP certification process should be adjusted to bolster preparedness. Bailey also talked about the potential benefits for a joint booth for CRCPD and HPS. Miltenberger asked to include the CRCPD report in the meeting record. Miltenberger thought the CRCPD report would be a good CHP corner article and Irwin agreed to write an article on this topic.

**6.9.3 HPS – Andy Miller**

Miller discussed the potential for an HPS task force regarding Joint Commission standards, especially the Qualified Medical Physicist designation and perhaps another for MRI issues.

Miller noted that financial support for Certified Laser Safety Officer (CLSO) and Certified Medical Laser Safety Officer (CMLS) training is wavering at the Laser Institute of America (LIA). He indicated that it is probable that, if another society does not come forward as a partner, this important training may end. Miller will be exploring the issue further with LIA. Miller feels that HPS and AAHP may be able to do a better job at providing this training. Miller also indicated that the MRI and non-ionizing radiation expertise of HPs should be more clearly articulated in the HPS and AAHP website. Miltenberger noted that no other organization is filling this void and this subject should be added to the MRI discussion, in new business.

Miltenberger noted that Federal employee meeting participation is problematic due to federal budget issues. Lambert indicated this should be a separate discussion.

Motion	Moved and Seconded by	Discussion	Result
Add "Laser Safety" as a new agenda item 11.9	Lambert, Bailey	None	Carried

**6.9.4 NRRPT – Eddie Benfield**

At the February 2015 exam, a total of 53 candidates sat for the NRRPT exam. 24 candidates passed the exam; a rate of 45% (which is an increase from last year’s exam rate). Benfield noted the most important determinant for passing was study time (dedicating 200 to 250 hours preparing for the exam).

NRRPT now has 1,675 active practitioners and a total of 5,300 individuals who passed the exam.

NRRPT will be finishing up the international exam, which will be administered at the 2016 IRPA meeting in South Africa. Mr. Larkin from South Africa and Mr. Tucker from McMaster University are spearheading the effort. The exam is based upon a Canadian exam; taking out the local regulatory questions and adding questions regarding IAEA standards. The United Arab Emirates have also asked for an exam for their country.

The academic outreach expansion is working to identify two-year degree programs, principally in the Southeast region (due to the number of reactors in that area). NRRPT is promoting their certification scholarships. NRRPT is also partnering with INPO and EPRI to promote the scholarships.

Benfield noted that the Regulations and Standards Committee has been commenting on 10 CFR 20 revisions.

A recognition of the 40<sup>th</sup> anniversary of the NRRPT will be celebrated at the HPS meeting in Spokane. NRRPT is planning to bring out Don Marshall, one of the founding fathers of registry, as an honored guest.

Benfield promoted the idea of reciprocity of NRRPT certification and passing part 1 of the CHP exam. Questions arose regarding the education requirements of NRRPT as compared to both AAHP and NRC RSO requirements.

**6.9.5 CESB – Nora Nicholson**

The report is found on page 90 of the meeting packet.

Nicholson indicated that AAHP has been affiliated with CESB since the late nineties. The director, Bill Anderson, is retiring and Adam Andrews, a member of CESB board, is succeeding him. Nicholson indicated that Adam is familiar with the work and seems to be a good fit. Nicholson noted that our renewal is due soon and Pat LaFrate expects to complete this application in October.

Nicholson indicated that CESB has some financial challenges that will result in increased application fees. They have no reserve funds so they essentially operate on a year to year basis. Most of their investments are CDs which have low returns but are quite safe from losses. CESB did not have directors and officer’s liability insurance which they obtained in spring of 2015. Nicholson reported the cost of the insurance was \$5000. Lambert asked about the likelihood of CESB failing in 5 years. Nicholson indicated that the board is taking a more active role which is a new development. Nancy noted that the current director has been resistant to innovation in methods and much of the work remains paper-based. Miltenberger cautioned about the viability of CESB with the recent loss of the ABIH.

Nicholson intends to continue to serve in her current capacity but her employment may preclude her future participation so she would like to establish a backup. Lambert indicated that he was an alternate to Nicholson on CESB and, consequently, receives materials from CESB.

Miltenberger indicated the financial solvency is an area of concern which we will monitor moving forward.

Motion	Moved and Seconded by	Discussion	Result
Receive committee reports.	Lambert, Bailey	None	Carried

**The Executive Session was held at this time and those minutes were separately recorded by the Parliamentarian, per the usual procedure.**

**7.0 Reports from the Editor & Webmaster**

**7.1 Newsletter Editor – Kleinhans/Anagnostopoulos**

The report is found on page 91 of the meeting packet.

Kleinhans is stepping down and Harry Anagnostopoulos will take over after the August CHP

corner has been completed. Kleinhans reviewed the pertinent SOPs & charter, and he determined that no changes were needed.

**7.2 Webmaster – Medling/Willison**

There was no report submitted.

Willison noted the website is up and functioning well. Additions are being made to add archival information. There is now a Facebook page for the Academy.

Willison indicated there are pictures that show the backs of individuals who are taking the exam. Concern arose as to keeping the identity of individuals, who are sitting for the exam, anonymous and for obtaining permission for these pictures.

A motion to receive these additional reports was approved.

Motion	Moved and Seconded by	Discussion	Result
Approve the reports in section 7 (7.1 and 7.2)	Buker, Kleinhans	None	Carried

**8.0 Report of the American Board of Health Physics – Patrick LaFrate**

The report is found on page 93 of the meeting packet.

LaFrate noted that both exams (Parts 1 & 2) were prepared for use on 13 July 2015. The Part 2 questions have completed the Q&A process, were reviewed by the wise person panel, and the final questions have been selected and sent to Nancy for copying. Applicants for the exam were all reviewed & approved, or denied, in accordance with ABHP procedures.

**9.0 Report of the Secretariat – Nancy Johnson**

These items are summarized in Johnson’s report on page 94 of the packet.

Johnson processed 347 applications for the 2015 examination. As of 30 June 2015 there were 274 candidates still in the exam pool. About the same number of candidates will take the exam this year as the previous year. Exams will be given at 19 sites. San Antonio was a late exam site addition, to accommodate two individuals with special family needs. Johnson reported that there are now 1,298 active CHPs and 236 emeritus CHPs. The emeritus total is a significant increase over previous years. There are now 422 non-active members and a cumulative total of 262 known deceased CHPs.

Motion	Moved and Seconded by	Discussion	Result
Approve the reports in section 8.0 and 9.0	Lambert, Jackson	None	Carried

**10.0 Old Business**

**10.1 Review of 2015 Action Items**

**10.1.1 Identify Replacement Chair to IRPA Working Group**

Miltenberger noted that this issue was discussed earlier in the meeting (section 5.1). Lambert indicated that there has been little progress on this issue, largely due to a lack of funding and support. Lambert and Miltenberger will follow up with Barbara Hamrick and Renate Czarwinski regarding the funding issue.

**11.0 New Business**

**11.1 Appointment of New Committee Members (see agenda item 5.2) – Kent Lambert**

The nominations were discussed in agenda item 5.2. One addition to the nominations in Lambert’s report was that Cheryl Olson would be an alternate for the Nominating Committee.

Motion	Moved and Seconded by	Discussion	Result
Approve the nominations as amended above.	Miltenberger, Lambert	None	Carried

**11.2 AAHP Contributions/Support to the ABMP - Robert Miltenberger**

Miltenberger noted that we were billed \$1,000 in support of the ABMP (see page 101 of the meeting packet). Nancy indicated that we historically supported this group, and to this amount, for many years and thereby were able to name 3 CHPs to the ABMP board. Because of initial support by the AAHP, ABMP grandfathered CHPs who worked in medical facilities into this group. ABMP has now discontinued certifying individuals for anything but Medical Health Physics. ABR has taken over certifications of the other 4 medical physics specialties such as diagnostic medical physics and radiation oncology physics. Nancy noted that there are a total of 42 individuals certified by ABMP in medical health physics, with many of them being CHPs.

Action Item	By Whom	Due Date	Status
Contact ABMP to evaluate the value of this annual contribution to AAHP	Miltenberger	End of this Summer Meeting	Open

**11.3 Budget Approval (see agenda item 6.4) - Boerner**

Boerner indicated that we discussed this matter earlier this morning under item 6.4. Boerner noted that the budget is very similar to last year’s numbers. Boerner indicated that the BAI bonus was decided in the executive session, and is set at \$4,500. This results in changes to some of the numbers. Receipts are unchanged at \$174,300 but disbursements now change to \$232,628. The projected deficit is now (\$58,328).

Motion	Moved and Seconded by	Discussion	Result
Approve the budget	Jackson, Kleinhans	None	Carried

**11.4 Replacement ABHP Members (see agenda item 6.5) – Earl Fordham**

This item was previously discussed in section 6.5. Lambert discussed the relative merits of the nominees, indicated that the rankings were reasonable, and that the two top candidates are a good complement to the resultant board. Both have been Part 2 panel members.

Motion	Moved and Seconded by	Discussion	Result
Approve Glenn Sturchio and Wayne Gaul for the ABHP board	Lambert, Kleinhans	None	Carried

**11.5 All Trials Campaign for Clinical Trials Transparency – Robert Miltenberger**

This item is found on page 103 of the meeting packet.

Miltenberger, Lambert, and Jackson indicated that this request is outside of our domain. As a courtesy, Miltenberger will respond to the request and decline to join. This is not an action item as it is not an AAHP objective. The response by Miltenberger is, instead, a simple courtesy.

**11.6 NRC Proposed Rules – Robert Miltenberger**

This item is found on page 105 of the meeting packet.

HPS has established a task group regarding the proposed rules, which is headed by Cheryl Olson. HPS wants AAHP to join their task group. Brown volunteered to join these efforts. Jackson’s asked whether this is an appointment. Miltenberger appointed Brown to the task group. To clarify, in order to make this a position statement from the Academy, this would require review and concurrence by the AAHP board.

**11.7 MRI Safety – Ed Bailey**

This item is found on page 108 of the meeting packet.

Miltenberger noted that, since we include nonionizing topics in our exam, it would be sensible to assert that our members have expertise in this area. Jackson indicated that we should build exam questions that cover this topic. There is no action item for this item. Miller and Lambert indicated that, for the time being, we simply need to keep an eye on the situation.

**11.8 CRCPD Membership**

Bailey explained that when Fordham moved to the CRCPD board, Ruth McBurney (the CRCPD Executive Director and a CHP) viewed this as a potential conflict of interest and asked Bailey to become the CRCPD liaison to the Academy. This was done. Bailey thinks it is less-than-ideal to have individuals who are members of both societies serving as the liaison.

Bailey noted that AAPM is planning to offer free one-day access to their course for state regulators. This is a small cost to AAPM and a large benefit to the regulators. Jackson noted that AAPM has an incentive to train regulators so that they become better educated and less likely to issue citations incorrectly.

Miltenberger asked whether we should fund participation for a Title Protection Subcommittee membership. Miltenberger also wondered if AAHP should get a CRCPD membership. Miltenberger questioned if the \$10,000 price tag would be worth the cost. Lambert indicated that we could simply encourage members to participate in CRCPD; perhaps via a CHP Corner article. Discussion ensued about offering our training courses or other professional engagement at CRCPD meetings.

Jackson asked how we would budget support for a course. Bailey indicated that if we charged

for a course, we likely wouldn't get very many attendees, and our usual instructors may not be going to the CRCPD meeting anyway.

Johnson will send the CRCPD report to the Executive Committee to help to identify possible courses and potential instructors. Miltenberger will contact Bill about possibly offering a couple of courses. Miltenberger wondered whether the Professional Development Committee or the Continuing Education Committee should be contacted.

Buker noted that CRCPD offers a first responders training course that is very good.

**11.9 Laser Safety Training**

Miller indicated that this issue originated with the HPS board, who views this as AAHP business.

The Laser Institute of America (LIA) is seeking some other group to take over the laser safety training and certification. Miller indicated that it is a difficult decision because we lack important details. Miller isn't sure what they really want or the expected cost. LIA originally reached out to Armin Ansari, who forwarded this to Ken Barat (who is the HPS ANSI liaison). LaFrate asked if this is just asking for funding, or something more. Miller said that his impression is that they want someone to administer their test and to handle the application process.

Miller thinks that LIA has been doing the administration of the exam as a service to the Board of Laser Safety. Bailey thinks that this exam is not particularly difficult or rigorous. Lambert noted the answer might be to simply suggest that LIA contract-out for these services with BAI. Lambert said that if the scope of work includes managing course contents, then this is a bigger task to take-on. Bailey will contact Ken Barat and report back at the midyear meeting.

Action Item	By Whom	Due Date	Status
Contact Ken Barat and LIA to better understand what they want and report back to AAHP.	Bailey	Midyear Meeting	Open

**11.10 2015 Special Session Update – Edgar Bailey**

Bailey noted that this information is found on page 22 of the meeting packet, and the secretary noted that this topic was also discussed in section 5.3 of the meeting.

Alexander Brandl will start the session with a 90 minute course that is mandatory for all HP students at Colorado State University. Bob Emery will discuss decision making tools. Ray Johnson will discuss the professional ethics of risk communications. Professor John Poston will discuss ethics training for engineers and HPs. Dick Toohey will discuss the ICRP/IRPA initiative on ethics. Bailey will also host a panel discussion on ethics.

**11.11 Academy Open Meeting Agenda – Nancy Johnson**

The open meeting agenda is found on page 110 of the meeting packet.

**11.12 January 2016 Meeting Date**

Johnson noted that Sunday 31 January 2016 is the scheduled date for the next meeting. This will occur in Austin, TX. A motion to approve the meeting date was approved.

Motion	Moved and Seconded by	Discussion	Result
Motion to approve the next meeting date on Sunday 31 January 2016 at 8:30 AM Austin, TX	Jackson, Buker	None	Carried

**12.0 Adjournment**

A motion to adjourn the meeting was approved. The meeting ended at 4:49 PM.

Motion	Moved and Seconded by	Discussion	Result
Motion to adjourn until Sunday January 31, 2016 8:30 AM Austin, TX	Jackson, Buker	None	Carried

**Meeting Addendum**

Provided below is the content of a 17 July 2015 e-mail that Robert Miltenberger subsequently distributed to the members of the Executive Committee, which adds closure to agenda items 10.1.1, and 11.2.

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There were two follow-up action items that I was able to conduct at the meeting, which should be captured sooner, rather than later.

1. Miltenberger spoke with Richard Vetter and Andy Miller regarding payment to the ABMP. Apparently, there is an ability to stave off some of the work erosion that the ABR would have without the liaison. Fundamentally, there are three main reasons for doing this:
  - a. The ABMP accepts Part I of the ABHP exam for their exam.
  - b. The ABMP is an alternate venue for acceptance in the medical profession where the ABR would like to limit our role.
  - c. We get three seats on the Board so we can provide guidance as we see it. Richard Vetter said he would document the history and get it to us for future reference. After the discussion, it was clear to me that we should continue this liaison.
2. Miltenberger spoke with Brett Burk about the title "Program Director". He concurs with its use as-written in the procedures, and that Johnson fills this role (including signing contracts). Consequently, we can go ahead as planned.
3. Bailey, Lambert, and Miltenberger spoke with Renate Czarwinski (President of IRPA) regarding international certification, and progress on that front. Apparently, the draft that Lambert submitted for review & comment to the committee was reworked, is in circulation, and is nearing completion. Czarwinski requested that Lambert stay on the committee, in order to maintain continuity and momentum. The IRPA would pay travel expenses for Lambert to complete this work. We all agreed that this was the best approach. Consequently, I'd like to thank Brown for volunteering to help out by replacing Lambert, but I think the path forward is clearer as proposed by Czarwinski.

**END**