

American Board of Health Physics

American Academy of Health Physics

NEWSLETTER - February, 1989

Dear Colleagues;

As you can see from the masthead, this Newsletter has evolved into a joint ABHP/AAHP publication, at least for the present. This seems entirely reasonable due to the synergistic relationship of the two bodies. We believe news items from both organizations are of great interest to all CHPs.

While the interests of the Board and Academy are comparable, their respective ages are quite different. The Academy is now completing its first official year of existence, having been incorporated in July, 1988. On the other hand, the ABHP will mark its 30th Anniversary in 1989. During this period, nearly 200 Certified Health Physicists have served in Board, Panel or Committee positions while many others have contributed to Board functions. The continued high level of performance of the ABHP can be attributed to the dedication of many CHPs, and will require similar contributions from many others in the future. The current Board Chair has promised "special events" to observe the 30th Anniversary at the Annual HPS Meeting in Albuquerque. Please plan to attend these events.

An item of interest to all CHPs is the revision to the Continuing Education Program which was implemented in January of this year. After several revisions and considerable discussions, the AAHP Continuing Education Credit System, was approved. This System contains several significant changes to the previous program, including; a different numbering system for required credits, a limitation on the maximum number of credits assigned to a single activity, and a method for obtaining credits for self development. Diplomates submitting for recertification may continue under the old system or convert to the new system. Details are contained within the Newsletter.

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- Announcements
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- AAHP News
- CEC Program Revisions
- CEC Approved Courses Since October 1988

Leroy F. Booth
Secretary, ABHP

RESULTS OF THE 1988 CERTIFICATION EXAMINATION

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In July, 1988, 177 candidates sat for the 32nd American Board of Health Physics Certification Examination. A total of 200 parts (Part I, Part II Comprehensive, and Part II Power Reactor) were completed and graded. The Board is pleased to announce that the following individuals have successfully fulfilled the requirements of the Board and are designated as Certified Health Physicists:

Addison, Stanley	Michlewicz, David
Allard, David J.	Mileham, Andrew P.
Allen, Thaddeus E.	Mlekodaj, Ronald L.
Bandrowski, Michael S.	Morris, William J.
Barton, Terence P.	Munson, Scott C.
Bell, Robin S.G.	Murphy, Glenn L.
Bloom, Cindy W.	Nelson, Jeffrey B. (PR)
Boeldt, Eric J.	Orcutt, Julie A.
Borders, Rex J.	Owen, Carolyn J.
Carey, Walter E.	Parsons, Joseph
Efird, Carl R. Jr.	Peper, Charles W.
Ernst, John P.	Rhea, Tony A.
Farrell, Wayne E. (PR)	Rhodes, William G. III
Flory, Claude A.	Roselius, Ronald R. (PR)
Frey, Steven R.	Salladay, John L.
Gels, Gerald L.	Schmidt, James W.
Googins, Shawn W.	Schoenfelder, Robert P.
Greene, Richard T.	Sewell, Linda M.
Horvatinovic, Matthew A.	Sheetz, Michael A.
Ikenberry, Tracy A.	Spector, Harold L.
Kenning, Ralph W. Jr. (PR)	Stabin, Michael G.
Lantz, Michael W.	Steffes, David R.
Lavoy, Thomas R. (PR)	Stephens, George M. Jr.
Leavey, Jeffrey A.	Strom, William
Lizzo, Nicholas S.	Thomas, Billy R.
Mayer, Donald	Thornhill, Michael J. (PR)
	Walraven, Douglas J.

In addition, the Board is pleased to announce that the following individuals have passed Part I of the Certification Examination, and shall be recognized as Associate Members of the American Academy of Health Physics (pending a change to the AAHP Bylaws):

Bastian, C. Thomas	McMahon, Mark
Berk, Harold W.	Methe, Brian M.
Bonvento, Michael J.	Middleton, Robert C.
Burke, Mitchell	Nichols, Michael C.
Chawaga, David J.	Njoku, Edwin E.
Chen, Shih-Yew	Parlatore, Linda M.
Cooper, Terry L.	Pennington, William S.
Decker, William A. Jr.	Rabovsky, Joel L.
Donnachie, John P.	Raguse, Rick A.
Duncan, Fred L.	Razor, John E.
Faillace, Ernesto R.	Re, Gary C.
Gilliam, Robert J.	Reynolds, Harold W.
Hettich, Josef J.	Rothman, Brian C.
Ho, Anthony K.	Schuh, James R.
Hosey, Charles M.	Selman, Ralph L.

Ipe, Nisy E.
Johnson, Rodney C.
Lane, Marcia D.
Lindsay, John D.
Liu, Chwei-Jeng
Macdurmon, George W.
Maiello, Mark L.
Manninen, Bruce S.

Shingleton, Kathleen L.
Shott, Gregory J.
Solow, Alan J.
Tester, Michael C.
Thacker, Rick L.
Vories, David H.
Whitcomb, Robert C. Jr.
Wicks, Gerald D.
Wrobel, Mark C.

For the 32nd Exam, the pass rate was; 55 percent for the Comprehensive Exam, 67 percent for the Power Reactor Specialty, and 45 percent for Part 1 only. These values are entirely consistent with the average of previous exams. Historically, approximately half of all candidates taking the exams have passed. As we can see, the relatively small fraction of health physicists who are certified is not a result of failure to pass the ABHP Examination, but rather due to a failure to apply for and take the Exam.

MESSAGE FROM THE ABHP CHAIRMAN
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Dear Colleagues;

I hope you have all had a pleasant Ground-Hog Day. These are combined remarks from the outgoing 1988 Chairman and the incoming 1989 Chairman. It seemed more efficient that way.

The Exams Panels are now hard at work preparing for the 1989 exam. Already the new Part I Panel has completed their review of this year's Part I exam. They have an especially difficult task, since it is a new committee, and we have a new examination service contractor this year. However, from what we have seen so far, Dick Bowers and the rest of the committee are up to the task. They met for 2 days in October, to begin the process for the 1989 exam.

Part II is already ahead of previous year's schedules. One of the lessons we have learned over the years is that if we do not do a good job of preparing the exam, we pay for it at grading time. This year's Part II Panels (Dean Broga, Comprehensive Chair, Scott Medling, Power Reactor Chair) started work very early. There was a preliminary organizational meeting in July at the HPS meeting, with specific assignments distributed shortly thereafter. A combined Panels meeting was held January 28-29, 1989 in Washington DC.

The Board is very appreciative of the dedication of the panel members in this voluntary process. The three panels have 38 total members, and during these two-day weekend meetings 31 attended!! Of course, they put in much more additional time during the rest of the year. Thank you.

Later in this newsletter is an excerpt from an address by John Lakey, IRPA President, discussing an effort toward international accreditation in radiation protection. As a by-product of recent international business travels, I have discussed the meaning of Health Physics accreditation with representatives from Australia, Taiwan, United Kingdom, Holland, and France. Based upon these discussions, an international consensus is a long way off. There is some impetus for action within the European Common Market by 1992, when workers can freely seek employment in other ECC countries. However, I speculate that this will be more of a licensing process (minimum qualifications to practice), rather than the peer-level standard reference that the ABHP uses. We wish them luck, and have volunteered to help where we can.

Finally, October 29, 1989 is the 30th Anniversary of the date when an amendment to the By-Laws of the HPS established the ABHP. We plan suitable

recognition of this historic event at the Albuquerque HPS meeting. The Board has authorized me to spend unlimited time (but no money) for a suitable celebration. There will be a special session on Thursday afternoon on topics of interest to Certified and Certifiable HP's. This is being organized by John Horan; please plan on attending. We hope to have some historic memorabilia and comments or recollections of early Board members on display at the ABHP booth. Stop by. If anyone has anything of interest to display or early photographs or documents, please send them to me. Hope to see you there.

Frazier L. Bronson
Chairman, ABHP

BOARD AND PANELS REPORT
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The American Board of Health Physics met on October 13th and 14th, 1988, in Washington D.C. The primary purpose of this meeting was to review the results of the 1988 Certification Examination and to certify successful candidates. The Chair and Vice Chair for both Part II panels were present and submitted detailed reports on exam grading and scoring. It was reported that Ken Miller had been appointed by the Academy to fill the unexpired term of Glen Glasgow, who had resigned due to health reasons. The Board continued its evaluation of the exam structure with respect to serial-multiple-choice (SMC) questions. The current goal is for Part II to contain approximately 50% SMC and 50% essay and calculational type questions. The performance of all Part II questions, including SMC questions, is being evaluated. The Board also made several revisions and updates to the prospectus, policy manual and by-laws.

1989 Board Members

Frazier Bronson . . . Chairman
Howard Dickson . . . Vice Chairman
Leroy Booth Secretary
Dale Denham Parliamentarian
Richard Bowers
Kenneth Miller
Carl Distenfeld
Thomas L. Pitchford

The Part I Panel of Examiners held its first meeting on October 15th and 16th in Washington, D.C. Under the direction of Chairman Dick Bowers, the Panel reviewed the performance of each question presented in the 1988 Part I Exam. Based on this review, several items were revised and/or replaced by others from the bank of Part I questions maintained by the Board. This Panel is also responsible for validating all Part I questions, preparing new questions to add to the bank, and coordinating passing point determination meetings.

1989 Part I Panel Members

Dick Bowers - Board Member and Initial Chair

Robert English	Dale Gergely
Rodger Granlund	Jerry Hiatt
Gary Kephart	Peter Littlefield
Robert Quillin	John Serabian
Lester Slaback	Ronald Zelac
Gary Zeman	

The Part II Panel of Examiners (Comprehensive and Power Reactor) held their joint winter meeting on January 28th and 29th in Washington D.C. The purpose of this meeting was to perform a formal review of the proposed exam questions and answers for each topic, as prepared by Panel members. Based on this review, selected questions will be revised as needed and submitted all Panel members again and to the Board for final evaluation and review. The 1989 Part II Exam will then be constructed from this package of questions.

1989 Part II Panel Members

Comprehensive Certification Panel of Examiners

Dean W. Broga, Chair
Elizabeth H. Donnelly, Vice Chair

Lester K. Aldrich, II	Joseph Bevelaqua
Steven H. Brown	John S. Brtis
John D. Buchanan	Stephen W. Butala
Douglas G. Draper	Timothy W. Dziuk
Robert Gardner	David S. Gooden
Susan M. Langhorst	Thomas G. Martin
Christine J. Pollard	James E. Turner
Vern C. Rogers	

Power Reactor Certification Panel of Examiners

E. Scott Medling, Chair
Bruce A. Meyer, Vice Chair

Eric E. Bickel	Eric M. Goldin
Al Homyk	J. Russell Lovell
David W. Mohler	John O. Parry
Michael T. Sullivan	George J. Vargo

ANNOUNCEMENTS

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Secretariat Changes

We have a change in our Secretariat. Dianne Webber has accepted a position in the Washington area and we are sure that you join us in wishing her well.

Dianne's replacement as Program Manager is Kristi Jacobs. Kristi comes to us with eight years background in the association community. She is already hard at work on our activities and will be with us in Albuquerque. We have included her picture so you can welcome her aboard.

New Examination Service

In the Fall of 1988, the Board decided to replace its testing service, Professional Examination Service (PES), with a new consultant group. They will assist with the development and administer Part I of the Exam and provide consultation on other testing matters. The reason for this change is primarily financial. The new service, The Center for Educational Assessment, is a

division of The College of Education, University of Missouri-Columbia, and will be able to provide the same high quality services at a much reduced cost.

Next Board Meeting

The summer Board meeting will be held on Sunday and Monday, June 25th and 26th, in Albuquerque. These meetings are open to all CHPs. Any individual may request to have an item placed on the agenda for Board discussion. These items should be submitted to the Chairman approximately 30 days in advance of the meeting.

H.P.S. Position Paper Needs

David A. Waite, Chairman of the Scientific and Public Issues Committee, has requested that the members of the AAHP suggest topics of current public concern which might be developed into position papers.

Four new topics which are being considered by the Committee are in need of qualified volunteer authors to develop the first draft in a format similar to that used in the papers already published in the HPS Newsletter September 1988.

These tentative topics are the following:

- * High Level Waste Disposal
- * Safe Transport of Radioactive Waste
- * Insignificance of Leukemia Clusters
- * Low Level Waste Disposal

If you are interested in helping to prepare a statement of fact, currently acceptable within our scientific community, on any of these topics, please contact Dr. Waite directly. His address is as follows:

David A. Waite, Past President
Envirosphere Company
10900 N.E. 8th Street
Bellevue, WA 98004

Telephone: (206) 451-4600

IRPA President's Address

The following is a portion of interest to CHPs of the text of an address by the new President of the International Radiation Protection Association, Professor J R A Lakey, to the Society for Radiation Protection in Belgium on 7 October 1988. His title was "International Developments in Radiation Protection."

A major feature of future IRPA activities is the initiation of studies of the qualifications of radiological protection experts. A working party led by Jill Fitch, the Australian member of the Executive Council, is to seek information on international standards and to work towards improvement in qualifications. At the Associate Societies Forum in Australia, a strong request was received to seek a minimum level of certification for those persons professionally qualified in radiological protection. It is important not to omit a similar action for technical persons associated with the subject, but in all cases, progress may be hampered by the lack of recognised training courses with international validation. The work in the USA on both professional and technical certification is highly commended: although its application to smaller countries might not be feasible, it represents an objective method for

selecting individuals who have attained a clearly-defined standard. It is important in Europe that those persons professionally qualified in radiological protection should be able to transfer their accreditation to other countries after 1992, but differences in regulatory attitude towards professional qualifications between European countries could be a serious obstacle. At this stage, IRPA is to seek factual information, from which a minimum standard might be identified; this will be pursued as a matter of urgency. A more fundamental requirement is to achieve a realistic attitude towards radiation hazards in the community as a whole. There is a need for sound education at all levels in the matter of radiological facts and about radiation protection norms. The whole community of radiological protection experts has a responsibility for the reliable dissemination of facts and the international consistency of information. This could be of considerable assistance in allaying the fears of the public which, in some cases, almost amount to mass hysteria and which feeds on ignorance.

RESULTS OF THE ABHP QUESTIONNAIRE

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The results of the ABHP Questionnaire, which was distributed to the membership last year, are presented here for your information. The questionnaire was mailed out to all ABHP diplomates and we received 163 responses.

Exactly 2/3 of those responding to the question on certification exam fees thought the fees should remain constant at \$200 per Part, 26% thought that the fees should be increased, while only 7% thought that the fees should be lowered. Roughly equal numbers of respondents thought that the fees were appropriate for the individual components: application review and approval, examination administration, certification plaque.

Just slightly over 1/2 (53%) of those responding wanted to leave the renewal fee at \$100 over a four year period. Forty-three percent were in favor of raising the renewal fee. Most of those recommended a modest increase but a solid 19% recommended doubling the renewal fee. At least one wealthy health physicist suggested quadrupling this fee!

Numerous suggestions were offered as sources of income for the AAHP. These ranged from humerous to downright ingenious. Space does not permit a tabulation of these ideas here.

The group was almost equally divided regarding whether there should be any specialty certification. As you know we have only one specialty, Power Reactors, at the present. It was mild surprise to find the diplomates slightly opposed (55% to 45%) to any specialty certification.

But if we assume specialty certification is appropriate, then the diplomates responding saw the specialty areas that should be considered for separate certification in the following order of popularity:

1. Power Reactor
2. Medical
3. Environmental
4. Non-Ionizing
5. Accelerator

It was surprising to learn, in response to the follow-up question, that not enough diplomates considered themselves adequately qualified to be able to constitute an exam panel for either the accelerator or non-ionizing specialties. Only five and three diplomates respectively indicated that they had the expertise to serve on those exam panels.

For the respondents, the solution to dealing with a small number of applicants in a given specialty was to offer the specialty examination less

frequently than annual. The respondents favored this option 2 to 1 over abandoning the specialty.

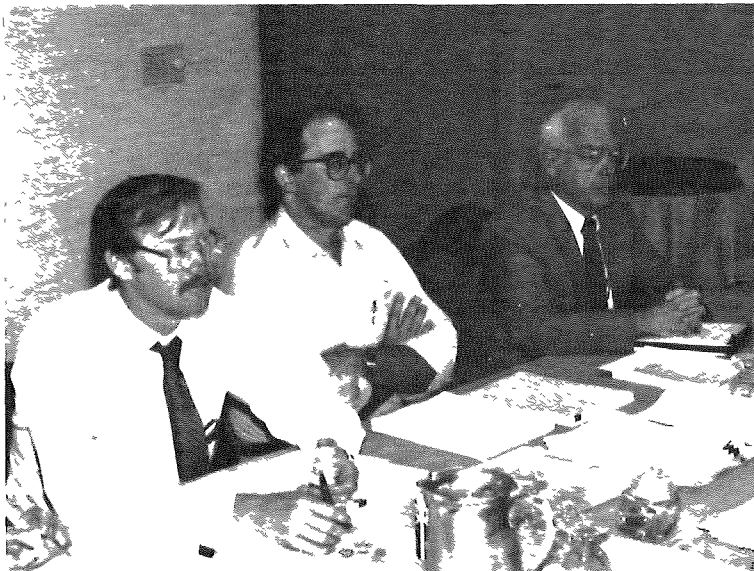
The respondents were about evenly split over whether to grant specialty certification to comprehensively certified individuals by specialty exam only (53%) or by administrative review and ABHP action (47%).

Regarding certification renewal, the vast majority (89%) were in favor of a process similar to what we currently do involving continuing education and job responsibility in health physics.

The next part of the questionnaire dealt with continuing education credits (CEC's). Although detailed statistical treatments of this data has helped the AAHP arrive at a new CEC system, only the highlights will be presented here. There was strong support for granting significant CEC's for formal education courses, training, publications, reports, and presentations. Some professional society participation activities, such as attending national meetings and symposia, received strong support; while other activities such as serving as an officer, or on a committee or a board, received only moderate support (about 2/3 in favor). Other professional activities were even less enthusiastically supported, e.g., "community involvement" showed only slightly over 50% supporting while "awards and recognitions" was supported by less than 50% of those responding.

The last few questions asked CHP's if they would get involved and we were gratified to find many volunteers for many different tasks and assignments. We from the ABHP will be calling on some of you who volunteered to help us. Also, we referred a list of names to AAHP so you may expect to hear from them if you have not already heard. We appreciate your assistance by completing this questionnaire and your willingness to contribute where needed. You are a great group!

NOTE: Thanks to Howard Dickson for compiling the questionnaires and providing this summary.



S. Medling, J. Beer, L. Pitchford
Fall '88 Board Meeting



G. Kephart, D. Gergely
Part I Panel



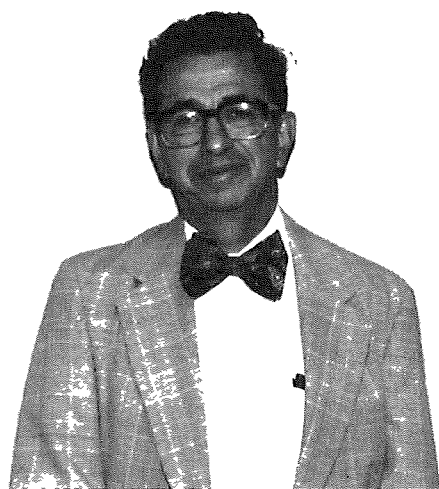
D. Broga, D. Denham, K. Miller, R. Bowers, L. Booth
Fall '88 Board Meeting



K. Jacobs
New Secretariat



D. Webber, H. Dickson, C. Distenfield, N. Kirner
Fall '88 Board Meeting



J. Sayeg, Retiring Board Member
and Official Photographer



L. Slaback and R. Zelac
Part I Panel

NEWS FROM THE AMERICAN ACADEMY OF HEALTH PHYSICS

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Message from the Outgoing President of the
American Academy of Health Physics

1988 has been another year of slow growth in the infancy of the American Academy. At times it is difficult to believe we are only three years young. We are still in the evolving process of finding our way into the realm of new corporations. Administratively we have reached a limited degree of capability as a functioning body. On the professional level we have yet to find our footing for meaningful activities of value to the members of the Academy. Somewhere in between we have started the process to provide certified HP's the opportunity to have more input and to become participants in the Certification Program of the American Board of Health Physics.

The following were the evolving steps taken during 1988.

- Reportedly the AAHP was incorporated July 1, 1988 in Washington, D.C. (We are awaiting copies of the incorporation papers).
- While bank accounts have not been transferred from the ABHP (IRS Certification delay) the Finance Committee is actively developing a budget for next year.
- The third General Meeting of the AAHP in Boston proved to be an effective channel of communication for the members of the Academy. The 1989 General Meeting is scheduled for a two hour period (on Wednesday afternoon) to encourage this input.
- Professional Development activities are now the function of a standing committee.
- The streamlined Continuing Education Credit System has been approved.
- Existing Communication Channels were better utilized to keep CHP's informed of Academy activities.

Problem areas and opportunities requiring additional focus are:

- Need to build up fiscal reserves in the Treasury.
- Define more specific duties for all officers and develop procedures for the Finance Committee and Treasury.
- More effective transition for newly elected members of the AAHP Executive Committee. With less than six weeks between the report of the Teller's Committee and the next Executive Committee Meeting, few newly elected members have sufficient time to arrange their participation. The basic problem is having Topical Meetings early in December rather than January or February.
- Sponsoring technical sessions at HP Society Meetings of particular interest to the professional needs of CHP's.
- Exploring the desirability of establishing links with the National Registry of Radiation Protection Technologists (NRRPT) similar to those established with the ABHP.

* Harnessing the tremendous technical resource of CHP's to develop publications and seminars for the benefit of the profession and the society we serve.

Your Academy needs your interest and support as the Executive Committee addresses these problems and opportunities to further develop our profession.

A special thanks to the members of the Executive Committee, Committee Chairmen and Members, Dianne Weber of the Secretariat, and all the members of the Academy who actively participated in any way to support our mutual interests.

John Horan, President
American Academy of Health Physics, 1988

News from the AAHP

The mid-year meeting of the Executive Committee, AAHP, was held in San Antonio, Texas on December 8, 1988, following the mid-year Topical Meeting of the HPS, under the Chairmanship of Otto Raabe. Eight of the thirteen members of the 1988-1989 Committees were present along with Richard Burk, Jr., from the Secretariat. Don Busick, a member of the Appeals Committee, and Regis Greenwood attended the open meeting as observers. All CHP's should keep in mind that Executive Committee Meetings of the AAHP are open for their attendance.

The Executive Committee Membership for 1989 is as follows:

Otto Raabe	President
Keith Schiager	President-Elect
Mike Terpilak	Secretary
Nancy Kirner	Treasurer
John Horan	
Joyce Davis	
George Holeman	Directors
Davis Myers	
Richard Fry	
Frazier Bronson	Ex Officio (ABHP Chair)

The following Interim Committee Appointments were made:

LaMar Johnson	Chairman, Nominations (reappointment)
Ken Skrable	Member, Continuing Education
Jerry Martin	Chairman, Professional Development
John Dapolito	Member, Professional Development

Executive Committee Members completing their three year terms were:

Paul L. Ziemer	Past President
Kenneth W. Skrable	Past Secretary
Robert E. Yoder	Past Director

A special note of thanks is also extended to the following Chairmen who are retiring in 1988.

Richard J. Vetter
Lee Booth

Appeals Committee
Exam Site Selection Committee

Highlights of the Meeting were the following:

* The interface between AAHP and ABHP was better defined. The Bylaws of the AAHP require that the policies, procedures and funding established by the ABHP are subject to the concurrence of the Executive Committee. After much discussion by both organizations the decision was reached that the AAHP would limit their approval of the ABHP activities to the bylaws and a document containing the major policies and procedures of the ABHP. Any policy changes implemented by the Board are to be provided to the Academy via Board Minutes. Concurrence may be assumed in the absence of any other feedback from the Executive Committee.

* A new fee structure and allocation of fees was approved which will be effective for new applicants as of September, 1989 (FY-1990), namely:

Application	\$ 50
Examination	\$150 per part
Certifications	\$100 per part
Maintenance/Renewal	\$ 25 per year
AAHP fee	0

Basically the fee structure was expanded from 3 to 5 categories and the actual cost for a successful applicant was increased from \$400 to \$450. After considerable discussion it was agreed that no fee be charged at this time for Academy membership. Members response to the 1/88 questionnaire concerning fees was given full consideration. The Executive Committee particularly appreciated the many suggestions received on possible sources of income for the Academy. A few members suggested that we could use HPS Annual Meeting profits but this overlooks the fact that AAHP and HPS are independent organizational entities.

* The 11/28/88 revision of the AAHP Continuing Education Credit System was approved. Modifications to streamline the system were made in response to the comments of a majority of the members. Our thanks to Bob Heublein and his committee of Bob Alexander, John Buchanan, Ken Ferlic, Jacob Shapiro and Ralph Thomas for the successful completion of this complicated and difficult task.

* The Executive Committee approved 5 minor administrative changes in functions and definitions in the Bylaws of the ABHP. A related proposal to delete the requirement to obtain AAHP approval for changes in ABHP policies and procedures was defeated.

* All candidates for the Executive Council election in 1990 will be invited to attend the Annual Meeting in June in Albuquerque.

* The following are new goals of the Executive Committee or 1989-1990

Chair and Committee appointments for 1990 will be approved at the June 1989 Annual Meeting.

A draft agenda will be sent out 2 months before each Executive Council Meeting.

A final agenda will be sent out 1 month before each meeting along with the written report of each Committee Chairman.

* The Executive Secretary, Richard Burk, reported his computer was in place and the financial records will be entered into a spreadsheet. Financial statements will be available on a monthly basis. The contract between the Executive Secretary and the ABHP is being transferred to the AAHP 1/1/89.

* George Vargo's proposal for more formal recognition for individuals successfully completing Part I of the ABHP Exams, but not yet Part II, was favorably endorsed by both the ABHP and the Executive Committee. After considerable discussion it was decided to develop a new category of membership for these individuals, namely, Associate Member of the AAHP. This will require a Bylaw change at the next meeting.

* A recommendation was made to the ABHP to provide examples of high scoring solutions to Part II exam questions to Associate Members of AAHP.

* The Past President was assigned the duty to provide items of interest to the AAHP/ABHP newsletter as well as the HPS newsletter.

REVISION TO THE AMERICAN ACADEMY
OF HEALTH PHYSICS (AAHP) CONTINUING EDUCATION CREDIT SYSTEM
* * * * *

Introduction

The revision to the continuing education credit system will make the system more equitable, more timely, and will reduce some of the subjectivity in the process. This revision was implemented in January of 1989. The potentially negative impact of this revision on those diplomats that began the recertification process prior to 1989 shall be minimized. These individuals may continue under the old system or may convert to the new system, whichever is more advantageous.

One major change from the previous system of assigning continuing education credits is that no single activity will be awarded more than fifty percent of the hours necessary for recertification. This change was made because it was felt that some activities were too heavily weighted, which minimized the diversity of professional activities that a diplomat would be expected to participate in for recertification.

Other key changes in the system include:

- Increase in CECs required for recertification
- Increase in CECs granted for common activities
- Pre-approved courses, meetings, and activities

It is recognized that the scope of this revision will have to be expanded as experience is gained using the revised system. Suggestions to enhance this change are solicited and should be forwarded to the Continuing Education Committee.

CONTINUING EDUCATION CREDIT AWARD PROCESS

SECTION I
GENERAL POLICIES

A. A total of 64 continuing education credits (CEC) is required for recertification. In order to qualify for credit towards meeting the

continuing education requirements for recertification by the American Board of Health Physics (ABHP) all courses and other activities must be approved by the Continuing Education Committee of the American Academy of Health Physics (hereafter referred to as "the Committee"). Application for approval may be made directly to the Chairperson of the Committee by the sponsor of a continuing education activity or by a Certified Health Physicist (CHP) who will participate or who has participated in the activity. Application for activities which are listed on the pre-approved list under Section III need not be made. Applicants are urged to submit their requests far enough in advance that a decision can be made by the Committee and announced before a scheduled activity begins; however, the Committee will accept without prejudice, and applying its usual approval criteria, all applications received within 90 days after a scheduled activity has concluded. Applications must be in the form specified by the Panel and complete in all respects. The CHP applying for a renewal of his or her recertification is responsible for maintaining the documentation supporting CECs claimed on the recertification application. The Committee does not maintain individual records of CECs granted.

- B. In the context of this document, a "continuing education activity" is an activity that contributes to the continuing health physics education of a Certified Health Physicist. Such activities may be formal or informal; however, all such activities should contribute to the technical competence of the CHP in his or her professional practice of health physics. Such activities include subjects used directly in health physics work, but not usually designated as health physics; for example, courses in: statistics, meteorology as applied to environmental dose assessment, reactor chemistry or reactor systems training, radiation genetics, data base management, program management, etc. A Committee member will evaluate each submitted activity on the basis of content and applicability, duration, and applicant's statement of applicability to his/her current health physics responsibilities. After evaluating these factors, the Committee member will assign each activity a number of continuing education credits in accordance with the criteria established under paragraph D.
- C. If the applicant does not agree with the number of credits assigned, the application may be resubmitted with an explanation and the bases for increased credit. In this case, it will be re-evaluated by the Committee. If the applicant is not satisfied with the Committee's re-evaluation, an appeal can be submitted to the Executive Committee of the AAHP. The decision of the Executive Committee will be final.
- D. The following guidelines has been established by the Committee for awarding continuing education credit. Participation in pre-approved activities (Section III) do not require submission of an application. Additional activities will be added to the pre-approved list as they are identified. Four major categories of continuing education activities have been approved for CHPs who wish to obtain CEC. These are:

- Group A - Formal Education Activities
- Group B - Publication, Reports, Presentations
- Group C - Professional Society Participation
- Group D - Other Professional Activities

Further explanation of activities approved for continuing education credit follow.

Group A
Formal Educational Activities

	<u>Maximum Credits</u>
Health Physics Summer School	32 credits - Phased in
College course - topic on certification exam	16 credits/course
College course - related engineering, science, medical, etc.	8 credits/course
Short course, seminar, or workshop covering an HP topic on Certification Exam	2 credits/contact hour (maximum of 32 credits)
Short courses or workshops - related engineering, science, etc.	1 credit/contact hour (maximum of 16 credits)

Group B
Publication, Reports, Presentations

	<u>Maximum Credits</u>
Book: Health physics or health physics related book - single author (Credit for joint authorship will be determined by the Committee.)	32 credits
Publication of Health Physics related article in a professional journal	16 credits
Paper presentations at professional meetings on a Health Physics related topic	8 credits
Poster presentation on a Health Physics related topic at a professional meeting	8 credits
Instructor; College course - only if not a faculty member	16 credits/semester hour
Lecture Presentation - only if not primary responsibility	2 credits/contact hour

GROUP C
Professional Society Participation

	<u>Maximum Credits</u>
Scientific Meetings - National and Regional	2 credits per 1/2 day up to a maximum of 12 per meeting
Local Chapter Meetings	2 credits per meeting (must include technical agenda)

Topical Symposia on HP Subjects	2 credits per 1/2 day up to a maximum of 12 per symposium
Health Physics related technical committee membership (ASME, ASTM, etc.)	12 credits per activity

GROUP D
Other Professional Activities

	<u>Maximum Credits</u>
Professional Self Development	To be assigned

Discussion of Certifiable Activities

Group A:

College Courses - These are bonafide offerings by accredited institutions for which academic credit is obtained. These courses must be professionally enhancing and the course is not eligible if taken to fulfill a degree obligation. Course cannot be audited and must be taken for credit. Instructors cannot obtain credit for teaching the course if it is a routine part of their job.

Short Courses, Symposia, and Workshops - These are technical courses, symposia and workshops in specialized health physics related areas. Note: Course sponsors or organizers are strongly encouraged to provide certificates of attendance or other forms of recognition to the attendees.

Group B:

Publications - Sole authors, joint authors, and authors of chapters are eligible to receive credit. Credit awarded to joint authors and authors of chapters will be based on their contribution to the total work.

Presentations - These are technical presentations at a local, regional, or national scientific meeting by the health physicist on a related topic. Credit is only given for the presentation or publication of the material, not both.

Group C:

Scientific Meetings - Scientific meetings offer health physicists the opportunity to keep abreast of current developments and upgrade/maintain their skills. Applications for credit for attendance should include a copy of the program for the meeting.

Society Participation - Health physicists may be involved with standards committee activities to ensure the goals of the profession are achieved. Credit is granted for this involvement.

Group D:

Professional self development is intended as a means for the certified health physicist to upgrade his/her professional skills through an individualized reading program. This reading program shall normally

include new technical advances in the field of health physics. The reading program must be submitted and approved by the Continuing Education Committee on an annual basis.

SECTION II
EVALUATION OF ACTIVITIES REQUIRING APPLICATION FOR APPROVAL

- A. All applications for CEC should be made using the form provided for this purpose. Documentation supporting and supplementing the information on the form may be attached to the form.
- B. Every attempt will be made to inform an applicant of the number of continuing education credits granted within eight weeks from receipt of an application.
- C. Symposia and professional meetings do not usually follow a formal "instructional or tutorial" format. As shown in Section III, annual and mid-year meetings of the Health Physics Society and other professional meetings have been granted continuing education credits. Other organized symposia with a central theme and featuring recognized experts may be considered for continuing education credits.
- D. "In-house" training conducted at the CHP's facility may receive continuing education credit. The number of credits assigned is directly related to its applicability to health physics practices and the CHP's ability to improve his skills to perform his health physics responsibilities.
- E. All formal educational activities (Category A) submitted for evaluation will require an abstract for basis of content, activity length, and the applicant's statement and explanation of applicability to his/her current health physics responsibilities or maintenance of health physics skills. An instructor's resume is not required. An application form is attached below.
- F. Applications for approval of CECs for activities other than formal educational activities (Category A) should include, as a minimum, a description of the activity, a statement of its relevance to the professional health physics capabilities of the applicant, and the amount of time the applicant is involved in the activity.
- G. Additional supportive evidence/explanation may be requested by the Committee at any time to aid in the review and awarding of CEC.

SECTION III
PRE-APPROVED ACTIVITIES

Group A - Formal Educational Activities:

Health Physics Summer School	32 credits
College Course - related engineering, science, medical, etc.	4 per semester hour or 3 per quarter
Short course, seminar, or workshop -	
• HPS continuing education lectures at mid-year or annual meeting (1 hour lecture)	2 CEC each lecture

- HPS professional enrichment program
lectures at annual meeting (2 hr. lecture) 4 CEC each lecture
- Short courses or workshops -
related engineering, science, etc. None pre-approved at
this time

Group B - Publication, Reports, Presentations

Book: Health physics or health physics related
book-single author (Credit for joint authorship
will be determined by the Committee.) No pre-approval; sub-
mit upon publication

Publications; journal article - 16 CECs maximum per
HPS Journal publication
Radiation Research
Radiation Protection Management
Journal of Nuclear Medicine

Paper Presentations at meetings -
HPS Annual or Mid-year Meeting 8 CECs
American Association of Physicists in Medicine 8 CECs
American Nuclear Society - Radiation and
Shielding Division 8 CECs
American Nuclear Society (other) 4 CECs
American Chemical Society - Nuclear Chemistry
Division 8 CECs
American Chemical Society (other) 4 CECs
American Industrial Hygiene Association 8 CECs
- Health Physics Topic
American Industrial Hygiene Association 4 CECs
- Other

Instructor - College Courses - None pre-approved at
(only if not a faculty member) this time

Lecture Presentation -
(only if not primary responsibility)

- HPS Continuing Education Lecture at
mid-year or annual meeting (1 hr lecture) 2 CECs each
- HPS Professional Enrichment Program
HPS Annual Meeting (2 hr. lecture) 4 CECs each

Group C - Professional Society Participation -

Scientific Meetings - National and Regional: 2 credits per 1/2 day
up to a maximum of 12
per meeting
HPS
ANS
AAPM
AIHA
NCRP
ACS
SNM
CRCPD
RSNA
Annual Conference on Bioassay, Analytical,
and Environmental Radiochemistry

Local Chapter Meetings: 2 credits per meeting
HPS
ANS
AAPM
AIHA

National level Health Physics related technical 12 credits per 4-year
or standards committee: period
HPS standards committee
ANS
AAPM
ANSI Standards Committee
NCRP
ABHP Exam Panels

Group D - Other Professional Activities -

Professional Self Development None pre-approved at
this time (determined
on an individual
basis)

CONTINUING EDUCATION COMMITTEE, AMERICAN ACADEMY OF HEALTH PHYSICS
APPLICATION FOR CONTINUING EDUCATION CREDIT

For official use

Appl. No. _____
Date Rec'd. _____

1. CEC Category (check one A B C D
2. Type of activity (e.g., short course, publication, attendance at meeting, committee membership)
3. Outline, abstract or description of activity:
4. Activity duration (if applicable):
contact hours _____ days _____ semester hours _____ Other:
5. Name and address of organization at/for which activity performed (if applicable):
6. Contact person for the activity for which the application is made (if other than requestor):

Phone Number () _____
7. Relationship to health physics/current responsibilities (if applicable):
8. Other relevant information, if any:
9. Purpose (check all that applicable):
 For approval of CECs for all qualified attendees
 For inclusion with publicity for this training
 Approval for including in listing of pre-approved activities
 Other (please explain):

10. Requestor (name):

Address:

Phone Number: () _____

11. Signature of requestor: _____ Date: _____

For Continuing Education Committee use:

Total Credits Awarded:

Add activity to pre-approved listing? yes___ no___

Basis for credit award:

Signature of Continuing Education Committee member:

_____ Date: _____

Name (print or type):

[100,100]464

COURSES APPROVED BY THE CONTINUING EDUCATION PANEL
NEW LISTINGS SINCE OCTOBER 1988

1985
COURSES APPROVED BY THE CONTINUING EDUCATION PANEL

NUMBER	TITLE	SPONSOR/LOCATION	DATE	CEDs
85-188	Health Physics Committee Meeting	Edison Electric Institute	Sep. 4-6, 1985	3

1986
COURSES APPROVED BY THE CONTINUING EDUCATION PANEL

NUMBER	TITLE	SPONSOR/LOCATION	DATE	CEDs
86-109	Fall Technical Meeting	Rio Grande Chapter, HPS	Nov. 7, 1986	*
86-110	Health Physics Committee Meeting	Edison Electric Institute	Sep. 2-5, 1986	3

1987
COURSES APPROVED BY THE CONTINUING EDUCATION PANEL

NUMBER	TITLE	SPONSOR/LOCATION	DATE	CEDs
87-134 (a) (b)	High Level Radioactive Waste Disposal Responsibilities of the HP to Correct Misapplications of HP Data	New England Chapter, HPS	Dec. 2, 1987 Sep. 30, 1987	1/2 1/2
87-135	Methodology for Calculating Skin Doses	HPS Midyear Topical Meeting	Dec. 15, 1987	*
87-136	Post Accident Noble Gas Radioactivity Monitors: Calibration & Use of Dose Assess.	HPS Midyear Topical Meeting	Dec. 15, 1987	*
87-137	Signs Physicist Course	Gen. Electric Medical Sys.	Sep. 14-16, 1987	*
87-138	Internal Dosimetry Calculations using the INDOS Computer Code	University of Lowell	Sept 22, 1987	*
87-139	Response of Geiger Mueller Detectors	TGM Detectors	Dec. 3, 1987	*
87-140	Nuclear magnetic Resonance Imaging & Tour of Albany Medical Ctr. NMR Facility	Albany Medical Ctr.	Apr. 2, 1987	*
87-141	ICRP Meeting - Oxford, England	ICRP	1987	*
87-142	ICRP Meeting - COMO	ICRP	Sep. 7-12, 1987	*
87-143	Fall Technical Meeting	Rio Grande Chapter, HPS	Nov. 13, 1987	*
87-144	Health Physics Committee Meeting	Edison Electric Institute	Sep. 22-25, 1987	3

1988
COURSES APPROVED BY THE CONTINUING EDUCATION PANEL

NUMBER	TITLE	SPONSOR/LOCATION	DATE	CEDs
88-67(a) (b)	Non-Ionizing Radiation and Other Strange Things - Winter Chapter Meeting Annual Meeting	Cascade Chapter, HPS Cascade Chapter, HPS	Feb. 25-26, 1988 May 20, 1988	2 2
88-102	1988 Fall Meeting	Cascade Chapter, HPS	Dec. 2, 1988	*
88-103	NY State Radiation Safety Officers Conf.	Off Radiation & Nuc. Safety	Oct. 28, 1988	*
88-104	74th RSNA Scientific Assembly	RSNA-AAPM	Nov. 27 - 30, 1988	*
88-105	Radiation Accidents	RSNA-AAPM	Nov. 28, 1988	*
88-106	Physical Agents: Ionizing Radiation	UCLA-Berkeley, Public Health	Fall 1986 Spring 1987 Spring 1988	*

88-68	Advanced Gamma Spectroscopy	Quantum Technology	Jul. 25-29, 1988	*
88-69	Hot Particle Dosimetry	Technical Management Serv.	Jan. 11-12, 1988	3
88-70	1988 Radman Users Meeting	WNG, Inc.	Sep. 13-14, 1988	2
88-71	1988 Fall Meeting - Technical Session	North Central Chapter, HPS	Oct. 14, 1988	2
88-72	Medical Imaging II	Upstate NY Chapter - AAPM	Sep. 29, 1988	2
88-73	Workshop on Interpretation of Bioassay Measurements	Baltimore-Washington HPS Chapter & USNRC	Sep. 1988	2
88-74	ARHP Preparation Course	East TN Chapter, HPS	Apr. 7-Jun. 16, 1988	6
88-75	ABACOS II Body Burden System Operation (VMS) (SU424-5)	Canberra Industries	Oct. 17-21, 1988	*
88-76	Low-Level Radioactive Waste	New York Academy of Medicine	Sep. 23, 1988	2
88-77	Texas Conference on the Regulation of Radiation	South Texas Chapter, HPS	Sep. 8-9, 1988	2
88-78	Annual Meeting	Institute of Nuclear Materials Management	Jun. 27-30, 1988	0
88-79	Low Level Radioactive Waste Siting	N.E. New York Chapter, HPS	Dec. 8, 1988	*
88-80	American College of Radiology	VA. Chapter	Nov. 5, 1988	*
88-81	Relative Biological Effectiveness of Neutrons	HPS, Midwest Chapter Annual	May 19, 1988	*
88-82	Low-Level Waste Management Conference	Idaho Nat'l Engineer. Lab.	Aug. 30-Sep. 1, 1988	*
88-83	Section program APHA Annual Meeting	Radiological Health Section	Nov. 14 - 16, 1988	*
88-84	Bioassay Data Interpretation	E. TN. Chapter, HPS	Dec. 3, 1988	*
88-85	Rationale for Emerging Modalities of Radiation Therapy	RSNA-AAPM	Nov. 30, 1988	*
88-86	Radiation Measurement: Trends for the 1990's	S.C.A. Chapter, HPS	Sep. 28, 1988	*
88-87	Internal Dosimetry	Susquehanna Steam Electric Pennsylvania Power & Light	May 26 - 27, 1988	*
88-88	Second Conference on Radiation Protection and Dosimetry	Oak Ridge Nat'l Lab	Oct. 31 - Nov. 3, 1988	*
88-89	Annual Technical Meeting	Cent. Rock Mt. Chapter, HPS	Apr. 14, 1988	*
88-90	DOT/OSH/EPA	SAIC	Nov. 1 - 3, 1988	*
88-91	Global Effects of Atmospheric Cont.	NM Chapter, Air & Waste	Oct. 25, 1988	*
88-92	Medical Basis for Radiation Accident Preparedness (Int'l Conf.)	REAC/TS	Oct. 20 - 22, 1988	*
88-93	Environmental Regulation	Executive Enterprises, Inc.	Nov. 30 - Dec. 2, 1988	*
88-94	Trends in Radiation	Pacific Occupational Safety & Health Conference	Sep. 28, 1988	*
88-95	Gray Conference Low Dose Radiatoin	L.H. Gray Foundation	Sep. 11 -15, 1988	*
88-96	Fall Meeting of HPS	VA Chapter, HPS	Oct. 28 - 30, 1988	*
88-97	ANS/ENS International Conference	ANS/ENS	Oct. 30 - Nov. 4, 1988	*
88-98	Fall Technical Meeting	Rio Grande Chapter, HPS	Oct. 21, 1988	*
88-99	Fall Meeting of Waste Disposal	N.C. Chapter of HPS	Sep. 30 - Oct. 1, 1988	*
88-100	Radiation in Industry & Consumer Products	Greater N.Y. Chapter, HPS	Oct. 24, 1988	*
88-101	Internal Dosimetry	Quantum Technology for Philadelphia Electric	Nov. 22 - 23, 1988	*

1989
COURSES APPROVED BY THE CONTINUING EDUCATION PANEL

<u>NUMBER</u>	<u>TITLE</u>	<u>SPONSOR/LOCATION</u>	<u>DATE</u>	<u>CECs</u>
89-01(a)	Health Physics Society 1989 Annual Meeting	Albuquerque, New Mexico	Jun. 25-29, 1989	1 per day to a max. of 3
(b)	Health Physics Society 23rd Mid-Year Meeting	Atlantic City, New Jersey	Feb. 4-8, 1990	
Annual Meeting of:				1 per day to a max. of 3
89-01(c)	American Nuclear Society (ANS)			
(d)	American Association of Physicists in Medicine (AAPM)			
(e)	National Council for Radiation Protection and Measurement (NCRP)			
(f)	Society for Nuclear Medicine (SNM)			
(g)	Radiation Research Society (RRS)			
(h)	Conference of Radiation Control Program Directors (CRCPD)			
(i)	Radiological Society of North America (RSNA)			
(j)	Int'l Radiation Protection Association (IRPA)			
89-02	HPS Continuing Education Courses	HPS 1989 Annual Meeting		1 ea
89-03	HPS Professional Enrichment Program	HPS 1989 Annual Meeting		1 ea
89-04	Health Physics Society, 1989 Summer School			
89-05	Radon Testing Specialist	Radon Detection Services	12 courses in 1989	5#
89-06	Radon Mitigation Specialist	Radon Detection Services	12 courses in 1989	6#
89-07	Occupational Health & Preventive Medicine Workshop	Navy Environ. Health Ctr.	Mar.11-16, 1989	*
89-08	Health Physics in Radiation Accidents	Oak Ridge Associated Univ.	Jan. 16-20, 1989 Sept. 11-15, 1989	* *
89-09	Internal Radiation Dosimetry	Reynolds Electrical & Eng.	Jan. 9-14, 1989	*
89-10	DOE Radiation Protection Conf.	DOE	Jan. 31 - Feb. 3, 1989	*
89-11	Management of Radiation	US Army Belvoir RD&E	Jun. 5-9, 1989	*
89-12	NRC Rg II RPM Meeting	NRC	Jan. 12 - 13, 1989	*
89-13	Midwinter Chapter meeting	Cascade Chapter, HPS	Feb. 17, 1989	*
89-14	4th Int'l Symposium-Radiation Protection	Soc.Radiolog. Protection	Jun. 4 - 9, 1989	*
89-15	Health Physics of Radon	Penn State Harrisburg	Jan. 11 - Apr. 26, 1989	*

* Courses with an asterisk under the number of credits is currently under review.

Courses with a pound sign after the number of credits are credits issued under the new system.