

# American Academy of Health Physics

## American Board of Health Physics

Dear Colleagues,

The American Board of Health Physics has begun its thirty-first year of business this spring. Each year we welcome new Board members. We elect new officers. We appoint new panel members. We work to cope with new or recurring problems such as financial stability or exam questions quality. Yet, as the old saying goes, the more things change, the more they stay the same.

As Frazier Bronson pointed out last year, the basic function of the Board and the fundamental processes for obtaining certification have remained essentially unchanged through the years. Those changes which have occurred have been implemented gradually after careful study and consideration. A recent study showed the Board's procedures and policies to be consistent with other credentialing groups. This remarkable stability is, I believe, a result of careful thought by the initial Boards and continued diligence by subsequent Boards. And none of this could have happened without a great deal of hard work by everyone.

Which brings me to the point of this note. All CHPs will soon receive a maintenance fee notice which will offer each of you an opportunity to indicate a willingness to participate in the many Academy and Board activities. Please give careful thought before volunteering. Joe Bevelacqua recently noted in the HPS Newsletter that Comprehensive Panel members should be prepared to spend 100 hours per year on Panel duties. Way to go, Joe! That should put a damper on things. Unfortunately, he is right. If you volunteer, be prepared to contribute. When you contribute, all you will get is thanks from some of us. If you can't contribute, if you are too busy with other things, we understand.

Catch you later.

Lee Booth  
Chair, ABHP

**RESULTS OF THE 1989 ABHP CERTIFICATION EXAMINATION**

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The American Board of Health Physics is pleased to announce that the following individuals have successfully met the requirements of the Board and are designated as Certified Health Physicists. Congratulations!

- Richard A. Allen, Comprehensive
- Alex J. Boerner, Comprehensive
- Michael J. Bovino, Comprehensive
- Elizabeth M. Brackett, Comprehensive
- Shih-Yew Chen, Comprehensive
- Terry L. Cooper, Power Reactor
- David C. DiCello, Comprehensive
- Fred L. Duncan, Comprehensive
- David N. Fauver, Comprehensive
- Mitchell S. Galanek, Comprehensive
- Gregory M. Gowdy, Comprehensive
- Steven W. Green, Comprehensive
- Roger L. Halsey, Comprehensive
- Eileen Hotte, Comprehensive
- Calvin J. Huntzinger, Comprehensive
- Nisy E. Ipe, Comprehensive
- Roman Kahn, Comprehensive
- Susan R. Landahl, Comprehensive
- Elizabeth A. Langille, Power Reactor
- Thomas R. LaVoy, Comprehensive
- Edward Lazo, Comprehensive
- Mark M. Lewis, Power Reactor
- Michael Matheny, Comprehensive
- David A. McLaughlin, Comprehensive
- Frederic J. Mis, Power Reactor
- Michael C. Nichols, Comprehensive
- Arthur J. Palmer, Comprehensive
- William G. Phillips, Comprehensive
- Joseph F. Poliziani, Comprehensive
- Kathryn M. Pryor, Comprehensive
- Joel L. Rabovsky, Comprehensive
- John E. Razor, Comprehensive
- Eugene T. Reimer, Comprehensive
- Charles F. Reindl, Comprehensive
- Joseph P. Ring, Comprehensive
- James S. Sample, Comprehensive
- R. Scott Schofield, Power Reactor
- Douglas Schult, Power Reactor
- Kathleen L. Shingleton, Comprehensive
- Gregory D. Smith, Comprehensive
- John A. Solini, Comprehensive
- Glen M. Sturchio, Comprehensive
- Adam S. Weaver, Comprehensive
- Joseph M. Zlotnicki, Comprehensive

In addition, the Board is pleased to announce that the following individuals have passed Part I of the Certification Examination.

|                      |                     |
|----------------------|---------------------|
| Douglas L. Allen     | Kimberly L. McMahan |
| Brian L. Baumann     | Mitzi G. Miller     |
| Elizabeth A. Bogue   | Robert T. Mulvihill |
| Barry H. Brosey      | Charles D. Nesbitt  |
| Charles E. Coleman   | E. Karl Neuschaefer |
| Eric G. Daxon        | Harry J. Newman     |
| William W. DeForest  | Nora A. Nicholson   |
| Richard P. Farrell   | M. Frank Petelka    |
| Stacey A. Ferguson   | William G. Phillips |
| Brian M. Fisher      | Catherine L. Pugh   |
| Lynne Geary          | Barbara L. Reider   |
| Donald L. Haes       | John Robert Russell |
| Nancy L. Harris      | Mark R. Salasky     |
| Richard B. Holtzman  | R. Scott Schofield  |
| Eileen Hotte         | David C. Smith      |
| Tsz-Yik Hui          | Ronald J. Smith     |
| Calvin J. Huntzinger | Michael J. Stein    |
| William R. James     | Joan E. Stovall     |
| Craig E. Jensen      | Joseph M. Takahashi |
| Paul Henry Jones     | John G. Tirpak      |
| Mary M. Kenny        | Elizabeth Ullrich   |
| Brajesh K. Kothari   | David L. Wannigman  |
| David J. Krueger     | Jeffrey J. Whicker  |
| Michael J. Lambert   | Chuan-Fu Wu         |
| Edward Lazo          | Terry T. Yoshizumi  |
| Robert T. May        | Joseph M. Zlotnicki |

#### HIGHLIGHTS OF ABHP FALL MEETING

The Board held its annual Fall meeting in Washington, D. C. on October 20th and 21st, 1989. All Board Members, Panel Officers and the Secretariat were present. The principal items of business during this meeting included review of the reports of the Panel Chairs, approval of the examination grading results and granting of certification to successful candidates. Results for the 33rd ABHP Certification Examination were:

|                       |    |            |                 |     |
|-----------------------|----|------------|-----------------|-----|
| Part I                | 52 | out of 113 | passed the exam | 46% |
| Part II Comprehensive | 36 | out of 69  | passed the exam | 52% |
| Part II Power Reactor | 6  | out of 15  | passed the exam | 40% |

In addition, two candidates were granted certification after special review. A total of 44 individuals were granted Certification.

A number of comments and suggestions from Academy CHPs and candidates were considered during the grading process. The Board discussed methods of insuring that proper QC procedures were in place for the exam, including a suggestion from the Panel Chair to assign a Board (or AAHP Executive Committee) member "ownership" of a single question and responsibility to assure its final form is error free. The Board is

also reviewing a proposal by C. Distenfeld which would extend this ownership well into the panel question preparation stage and involve the Board at a much earlier stage in the process.

The Panel Chair also discussed with the Board the need to insure the same type QC among graders of Part II questions. Part of Distenfeld's proposal addresses grading, and would carry over the concept of Board (or Academy) members assuming responsibility for individual questions with respect to heading up, and coordinating, grading teams.

The Board reviewed a report from its testing consultant, CEA, concerning establishing a passing point for Part II of the exam. They pointed out the obvious, that a new form of Part II is given each year, and that candidates may select different items from each exam. They suggest a passing score be established for each possible combination of questions, using the Angoff method. The Board is continuing this study, and has implemented a procedure whereby individuals reviewing potential exam questions are asked to predict the score the "minimally qualified candidate" would achieve on each question (first step in the Angoff process).

The time allocated for Part II of the exam was extended to 5 hours. The board felt this extra hour would further reduce the time factor for Part II, and could be accommodated without seriously disrupting schedules or extending the exam into a second day.

A draft document delineating major policy elements requiring AAHP Executive Committee approval was prepared by an AAHP/ABHP ad hoc committee and submitted for review.

The Board reversed an earlier decision to publish well scored candidates answers to Part II questions, since suggested solutions are already being published in the Newsletter, and are in better form and format than candidate's answers.

The Board discussed the mechanism for the Board/Academy to present the McAdams award at the HPS Annual Meeting.

Replacements for 1990 outgoing Board members R. Bowers and K. Miller were suggested. Areas of expertise which need to be replaced or reinforced are power reactors, medical, and biological effects. The Board's recommendations were forwarded to the AAHP Nominating Committee.

Additionally, the Board reviewed the January meeting of the Panel of Examiners, past problems with exams and the schedule for the coming year.

#### **NEW MAINTENANCE FEE BILLING SCHEDULE**

In order to administer the recertification program in a more efficient manner, the American Board of Health Physics will change its maintenance fee billing from October to April. The new billing cycle is designed to correspond with the mailing of the certification renewal packages. By moving the billing period to April, the timely payment of the

maintenance fee will ensure that renewal applications will not be delayed due to incomplete maintenance fees.

In the past, the renewal applications have been mailed to diplomates in April. Many diplomates have returned their applications within 30 days only to find that the maintenance fee for their four-year recertification period is not complete. This was due to the ABHP policy of billing maintenance fees in October of each year.

In April or early May, you will be receiving a maintenance fee envelope very much like the one you received in October 1989. We hope that this year's shorter billing period will not inconvenience you. In the future, all maintenance fees will be billed in April.

#### **REPORT FOR 1989 FROM THE PAST PRESIDENT OF THE AAHP - OTTO RAABE**

During 1989 there were several important accomplishments and advances of the American Academy of Health Physics (AAHP). Ruth McBurney and Paul Ziemer were appointed to serve on the American Board of Health Physics (ABHP). New officers for the AAHP were elected including President-Elect John Auxier, Secretary Tom Crites, and Director Les Slaback. Besides supporting the testing and recertification activities of the American Board of Health Physics, the Academy is continuing to make progress in the planned goal of developing the prestige and recognition associated with the profession of health physics as a whole and board certification in particular. One of the most significant actions involved a major revision of the AAHP by-laws clarifying many aspects of the AAHP activities and organization and establishing a permanent Professional Development Committee and a new class of Associate Membership open to health physicists who successfully complete one part of the ABHP certification exam. The vote on all parts of the by-law revision was overwhelmingly in favor of these changes, and the establishment of Associate Membership was approved 292 in favor to 101 against.

After successful completion of one part of the ABHP certification exam, a health physicist can now become an Associate Member of the American Academy of Health Physics subject to proper application and payment of annual dues of \$10. Although Associate Members cannot vote or hold Academy office, there will be special benefits of Associate Membership. Besides the prestige of Associate Membership, special programs will be developed for this class of member for professional development, and also for encouragement and assistance toward the goal of ABHP Certification.

The Professional Development Committee, operating as a special committee in 1988 and 1989 under the leadership of Jerry Martin of Battelle Pacific Northwest Laboratory, has had many accomplishments and was responsible for development of the recommendation for establishing Associate Membership, following the request made by George Vargo at the Annual Meeting in Boston in 1988. In addition, this committee was able to assist in the updating of the brochures entitled "Certified Health Physicist" and "Prospectus of the American Board of Health Physics," by expanding the discussion on continuing education and recertification.

They evaluated and helped to improve the AAHP database maintained by the Secretariat and assisted in clarification of the Emeritus Member status. They investigated the feasibility and need to copyright the names or acronyms of the CHP, AAHP, ABHP, and/or the AAHP logo. They also initiated an inquiry of the AMA of the standards used for a qualified expert in Medical Health Physics.

In order to clarify in a concise fashion the working of the American Board of Health Physics and the Testing and Certification program, the ABHP and AAHP are working together to prepare a new document entitled "Major Policies and Important Procedures of the American Board of Health Physics." This new document should soon be available for review. A revised Continuing Education Credit System was developed by the Continuing Education Committee headed by Bob Heublein and approved by the AAHP Executive Committee. Also new in 1989 was the establishment of a special technical session at the annual meeting especially for Certified Health Physicists. This was a great success and will be a continuing tradition.

The need for an appropriate AAHP logo has been discussed at several meetings of the AAHP Executive Committee, but we need help with ideas for this logo. We encourage anyone who has ideas for an AAHP logo to submit them to our current President, Keith Schiager or to Kristi Jacobs at the Secretariat. These can be sketches or computer graphics or just ideas, and need not be finalized or perfect drawings. We will appreciate any submissions.

At the last meeting of the Executive Committee of the Academy at Atlantic City in February, Keith Schiager took over as AAHP President. I thank the members of the Academy for giving me the opportunity to serve as President in 1989. I thank the other members of the 1989 Executive Committee including President-Elect Keith Schiager, Past-President John Horan, ABHP Chair Frazier Bronson, Treasurer Nancy Kirner, Directors George Holeman, David Myers, Joyce Davis, and Richard Fry, and also the Executive Secretary help of Richard Burk and Kristi Jacobs. I also thank all the AAHP committee members and their chairs: Don Busick (Appeals), Bob Heublein (Continuing Education), Bob Van Wyck (Exam Site), Joyce Davis (Finance), LaMar Johnson (Nominating), Jerry Martin (Professional Development), and Charles Meinhold (Standards and Ethics). I believe that the Academy is progressing to meet its goals and that the strength and influence of the AAHP will continue to grow.

#### **THE ADVANTAGES OF MEMBERSHIP IN THE AMERICAN OF HEALTH PHYSICS**

**By: John A. Auxier**

The advantages of membership in the Academy cannot be separated easily from the advantages of being a Certified Health Physicist. All Certified Health Physicists are automatically eligible for membership in the Academy, but the most significant of all credentials and memberships is to be a Certified Health Physicist. It is this special status that is enhanced and served by the Academy.

There are certain well defined and objective roles of the Academy and its members. In the preamble to the bylaws we find, "The primary

purpose of the Academy is to establish an organization which permits the direct input of CHPs into the selection of the Board Members and the ongoing programs of the Board." In context, this refers to the ABHP and, thus to the whole Certification process. In the Bylaws is given the purpose of the Academy, with six specifics which relate to a member's opportunity to participate in the Certification Program, i.e., the advancement of the profession, high standards of ethics, etc. All of this is laudable.

However, it is my view that the intangibles are as important as these but more difficult to describe. To accomplish a description of an intangible, one can refer to tangible benefits. These include higher salaries, readily apparent professional status, quicker or more frequent appointments to committees and councils, etc., as compared to other Health Physicists, everything else being equal. Certification does not mean, necessarily, that you know more about Health Physics than the Health Physicist with the same degrees and experience as you, but you do have signed and sealed proof that you are a true professional; your non-Certified peers, for whatever reason, have not demonstrated this interest and/or ability.

The AAHP provides the only fraternity dedicated to furthering the Health Physics profession through the participation of the technical and scientific leaders of the profession. The AAHP is a true academy which belongs to its members and can be used by those members to further develop and enhance their careers. This is important only to the best trained and most ambitious professionals in our field. So, be the best that you can be, participate in the Academy.

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\* Because of the difficulty of meeting the necessary expense of \*  
\* the certification program, and because the Academy is oper- \*  
\* ating with a deficit budget of several thousand dollars, the \*  
\* Executive Committee is planning to increase the maintenance \*  
\* to \$50 per year. Before we take a final vote at the June \*  
\* meeting, we welcome comments from members. \*  
\* \*  
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THE PREAMBLE AND BYLAWS

of

THE AMERICAN ACADEMY OF HEALTH PHYSICS

Preamble

Shortly after its organization, the Health Physics Society established a committee to study the organization of health physics and to recommend a plan for certification if this appeared to be desirable. After a lengthy study, the committee recommended that an American Board of Health Physics (ABHP) be established to develop standards and procedures to examine candidates and to issue written proof of certification to individuals who have satisfied the requirements established by the ABHP. The Board of Directors of the Society decided that these recommendations had merit and appointed a temporary ABHP on November 8, 1958.

The temporary ABHP developed a set of minimum requirements for certification after carefully reviewing the professional background of 100 selected individuals believed to be representative of those recognized as competent health physicists, and submitted them to the membership of the Society for comment. At the Annual Meeting of the Society in June 1959, the matter was discussed in an open meeting and there was general support for the plan. The Board of Directors of the Society formally established the ABHP by approving an amendment to the Bylaws of the Society on October 29, 1959. The ABHP was incorporated in the State of New York in December, 1960.

During the twenty-five year history of the ABHP the Certification Program has been evolving. In 1977 a continuing Certification Program was initiated. A year later a specialty certification for Power Reactor Health Physics was developed. By 1981 the program had grown to the point that an Executive Secretary was hired to carry out the day-to-day efforts and to maintain the permanent records. The total number of Certified Health Physicists (CHP) has grown to more than 500 people and several hundred people have been applying yearly to take the exams of the ABHP.

The size and maturity of the certification program has prompted the ABHP to urge a further step in this evolving process. In response to the ABHP's belief that the growing body of CHPs should have more input and participation in the Certification Program, efforts were initiated in 1982 to create an American Academy of Health Physics. The primary purpose of the Academy is to establish an organization which permits the direct input of CHPs into the selection of board members, and to the ongoing programs of the Board. The Academy is not intended to serve as a "physicist society" program and recognize the activities of the health physics profession in general, but to encourage participation in the advancement of professional development, the Academy has established an Associate Member category to recognize those individuals who have successfully completed one part of the Certification Examination. This category of membership recognizes a significant accomplishment in the professional development of health physicists.

**Definitions**  
American Academy of Health Physics (AAHP) - An organization established to encourage the development and growth of the professional practice of health physics and to support the activities of the ABHP.  
American Board of Health Physics (ABHP) - An independent Board established in 1960 which has the responsibility for defining and carrying out the certification and certification renewal programs for professional health physicists. The ABHP appoints the members to the Board and provides funding or its activities.

Certified Health Physicists (CHP) - A person who has completed certain specified requirements of study and professional experience and has passed an examination designed to test competence in the fields. These requirements and examination are established and administered by the ABHP. Holders of this certification may also identify themselves as Diplomates of the American Board of Health Physics or as Board-Certified Health Physicists.

Active Certified Health Physicist - A CHP must renew certification every two years by demonstrating substantial and current practice in professional health physics and by earning a sufficient number of continuing education credits from approved activities as established by the American Board of Health Physics.  
Inactive Certified Health Physicist - A CHP who does not renew his/her certification is considered by the ABHP to be an inactive certified health physicist.

Certified Health Physicist, Emeritus - A Certified Health Physicist who has been granted Emeritus status by the American Board of Health Physics.  
Member of the Academy - An active CHP or CHP emeritus who has met all the financial obligations defined by the Executive Committee of the Academy becomes a member of the Academy.

Associate Member of the Academy - Individuals who have successfully completed one part of the ABHP certification exam will be granted associate membership in the Academy. This associate membership may extend for the period of time, as established by the ABHP, during which the certification process must be completed. The purpose of the associate membership in the Academy is to recognize complete fulfillment of the certification process and to encourage continuance toward full certification.

Annual Meeting - The annual business meeting of the AAHP and the AAHP Executive Committee, held in conjunction with the Annual Meeting of the Health Physics Society, usually in June or July of each year.  
Winter Meeting - The meeting of the Executive Committee held closest to January 1 each year, usually in December, January, or February.

BYLAWS OF THE AMERICAN ACADEMY OF HEALTH PHYSICS

I. NAME

The name of the corporation is: American Academy of Health Physics, which may be referred in abbreviated form as the AAHP and hereinafter is referred to as the Academy.

II. PURPOSE

The purpose of the Academy is:

- To provide an effective means for active CHPs to participate in and contribute to the certification program.
- To elevate and advance the profession of health physics by encouraging its study and improving its practice.
- To encourage and insist on the highest standards of professional ethics and integrity in the practice of health physics.
- To enhance communication between CHPs in those matters of common interest.
- To support the activities of the ABHP in the conduct of the certification and certification renewal process.
- To provide input of Certified Health Physicists (CHPs) into the selection of members of the ABHP.

III. MEMBERSHIP

- A. Plenary membership in the Academy is limited to active and emeritus CHPs, called Members.
- B. A CHP becomes a member of the Academy upon payment of all dues and fees established by the Executive Committee of the Academy. Each member is entitled to:
  1. one vote on all matters brought before the Academy
  2. to identification as a member of the Academy
  3. to all other rights, privileges and benefits of the Academy.
- C. Emeritus members are Certified Health Physicists who have been granted emeritus status by the ABHP.
- D. A CHP who does not fulfill the requirements for certification renewal is classified as an inactive diplomate of the ABHP and will be dropped from the lists of active CHPs and from membership in the Academy. Active memberships may be reinstated upon satisfying the requirements of the ABHP.
- E. A Member or Associate Member of the Academy whose dues or fees are unpaid at the end of the calendar year shall be notified of this fact by the Secretary. Notification shall be mailed to the member's last address. Unless all dues and fees are paid within thirty (30) calendar days after mailing such notice, his or her name shall be removed from the Academy roster. He or she may be reinstated by the Executive Committee upon payment of all dues and fees owed.



F. An active CHP who does not wish to be a member of the Academy must still pay all certification renewal fees in order to retain the status of active CHPs. Fees collected shall be applied to the certification and certification renewal process.

G. Associate membership in the Academy is available to those individuals who have successfully completed one part of the certification examination for the period of time, as established by the ABHP, during which the certification process must be completed. Associate Members of the Academy may: (a) identify themselves as Associate Members of the Academy, and (b) pay dues. Except as otherwise authorized by the Executive Committee, Associate Members may not hold office on the Executive Committee, serve on Academy Committees, nor vote on matters brought before the Academy.

#### V. EXECUTIVE COMMITTEE

- A. The Executive Committee is the governing body of the Academy and as such shall establish all dues and fees and exercise control over all funds, properties, activities, and policies of the Academy in accordance with the ARTICLES OF INCORPORATION and BYLAWS of the Academy.
- B. The Executive Committee, when fully constituted, consists of nine elected members and one Ex-Officio member as follows:
1. the President,
  2. the President-Elect,
  3. the most recent Past-President,
  4. the Treasurer,
  5. the Secretary,
  6. either the Past-Secretary or Past-Treasurer for one year following their two year term of office,
  7. three Directors
  8. the Chairperson of the ABHP (Ex-Officio).
- C. All members of the Executive Committee, with the exception of the ABHP Chairperson, shall be elected by and from the members of the Academy and shall have their successors are chosen and take office.
1. The President-Elect serves for a term of one year then advances to the office of President for a one year term.
  2. The Secretary and the Treasurer serve a term of two years each;
  3. The directors serve a three year term; the terms are staggered to allow one vacancy yearly.
  4. The ABHP Chairperson is selected by the ABHP and serves on the Executive Committee throughout his/her term.
- D. The terms of the newly elected officers and directors begin at the Winter Meeting following their election to office, or on January 1 if no Winter Meeting is scheduled.
- E. A vacancy occurs on the Executive Committee when a member
1. resigns from office
  2. accepts another office or position on the Executive Committee
  3. ceases to be a member of the Academy or
  4. cannot discharge the obligations of the office because of death or other circumstances.
- F. In the event of a vacancy on the Executive Committee other than one members of the Executive Committee by a majority vote may make an appointment to fill the unexpired term.
- G. If the office of the President becomes vacant, the President-Elect assumes the duties of the President but resigns the title of the President-Elect until ascending to the Presidency in due course. (In such a case the office of President remains vacant until filled by the President-Elect.)
- H. If the office of the President-Elect becomes vacant and a successor has not been chosen in the process of being chosen under regular election procedures the duly elected successor to the President-Elect shall take office immediately without the requirement of installation and ascends to the office of President in due course. In all cases the office of President-Elect shall be filled by a vote of the membership under the regular election procedure. If necessary, the Executive Committee may call a special election for this purpose.
- I. No person may hold an office or directorship for two consecutive terms unless the initial term was an appointment to fill out the unexpired term of an elected person.
- J. At the time of the formation of the Academy, a transition Executive Committee will be developed in accordance with a procedure approved by the proposed membership of the Academy.
- K. Each Executive Committee member is expected to devote sufficient time to AAPHP activities. Failure to attend two (2) consecutive meetings of the Executive Committee is ordinarily grounds for removal from office by vote of the Executive Committee unless extraordinary circumstances can be demonstrated.

#### V. OFFICERS

- A. The President is the principal administrative officer of the Academy. The duties of the President are:
1. to preside over all meetings of the Academy
  2. to serve as the Chairperson of the Executive Committee
  3. to coordinate all activities which come under the auspices of the Academy.
- B. The President-Elect shall perform such duties as delegated by the President and, in the absence of the President, shall assume the duties of the President.
- C. The Treasurer is responsible for the proper accounting of all monies and properties of the Academy. The Treasurer may be assisted by the Executive Secretary as authorized by the Executive Committee. The duties of the Treasurer are:
1. to serve as a member of the Finance Committee
  2. to submit the financial records of the Academy and the ABHP to the Executive Committee for approval
  3. to submit a report on the financial status of the Academy and the ABHP to the ABHP at the membership at the Annual Meeting of the Academy
  4. to bill and collect all funds due the Academy and the ABHP
  5. to pay all obligations of the Academy and the ABHP
  6. to assure administration of Academy funds in accordance with the approved budget
  7. to transmit to the successor all funds and properties of the Academy under his/her control.
- D. The Secretary is responsible for maintaining the official records of the Academy. The Secretary may be assisted by the Executive Secretary as authorized by the Executive Committee. The duties of the Secretary are:
1. to keep a record of the proceedings of all meetings of the Academy and Executive Committee
  2. to maintain in the permanent files of the Academy such records as may be necessary for the orderly conduct of the affairs of the Academy
  3. to maintain and publish annually a list of all members of the Academy
  4. to publish a newsletter periodically reporting the activities of the Academy and the ABHP
  5. to post all ballots and associated information used in the polling of the membership.
- E. The Executive Committee may retain an Executive Secretary to carry out the day-to-day responsibilities of the Academy and to assist the officers with their duties. The Executive Secretary shall assume these responsibilities as authorized by the Executive Committee. The terms of a written contract for the Executive Secretary shall be reviewed by the Executive Committee at least annually. The duration of the contract, as negotiated by a particular Executive Committee, shall not extend through more than three years. The contract may be renewed without regard to the number of prior terms held by a particular Executive Secretary.

#### VI. AMERICAN BOARD OF HEALTH PHYSICS (ABHP)

- A. The ABHP has the responsibility to determine that applicants for certification and certification renewal meet the professional standards established for the title of CHP. The ABHP Bylaws and the major policies and procedures used by the Board as described in a document "Major Policies and Important Procedures of the American Board of Health Physics" are subject to the concurrence of the Executive Committee of the American Academy of Health Physicists.
- B. The ABHP in carrying out its responsibilities is independent of any other body except that an individual who has been denied certification or certification renewal may request a review of that decision by the Appeals Committee established by the Academy. The role of the Appeals Committee is to determine that the procedures of the Board have been carried out fairly.
- C. The Executive Committee shall maintain the ABHP through the appointment of Board members and the provision of operating funds.
- D. Members of the ABHP serve five year terms and are appointed by the President of the Academy, subject to the approval of the Executive Committee.
- E. Except for the Chairperson of the ABHP, a member of the Academy may not simultaneously hold positions on both the Executive Committee and the ABHP.

## II. COMMITTEES

- A. The Executive Committee shall establish
  1. a Finance Committee
  2. a Continuing Education Committee
  3. a Nominating Committee
  4. an Exam Site Committee
  5. a Professional Standards and Ethics Committee
  6. a Professional Development Committee
  7. a Continuing Education Committee
  8. such other committees and administrative posts as may be required for the efficient administration of Academy affairs.
- B. The members of committees are recommended by the President and approved by the Executive Committee.
- C. The term of a committee appointment is three years. Additional terms may be allowed following review by the Executive Committee. Committee Chairpersons are appointed for a one year term each but may succeed themselves in office. The rules of this subsection (C) apply to all committees except the Finance Committee, which is addressed in Section H, below.
- D. With the exception of the recommendations of the Nominations Committee for Executive Committee vacancies, all recommendations of Committees are subject to the review and approval of the Executive Committee.
- E. The Nominating Committee consists of nine members of the Academy. No current member of the Executive Committee or ABHP shall be a member of the Nominating Committee. All recommendations of the Committee are made by a majority of the total membership of the Committee.
- F. The Nominating Committee shall
  1. select nominees for each elective office to be filled giving due consideration to assure broad representation on the Executive Committee
  2. affirm that the nominee is
    - i. eligible to hold the office
    - ii. will accept the nomination
    - iii. will serve if elected
  3. submit to the Executive Committee a list of the nominees no later than the Winter Meeting (or January 1 if no Winter Meeting is scheduled) one year prior to the proposed beginning of the term of office.
- G. The Nominating Committee shall also assist the Executive Committee in the selection of candidates for vacancies on the ABHP. The Nominating Committee shall determine through consultation with the current ABHP any particular expertise and background that may be important for the new ABHP member to possess and shall seek recommendations from the ABHP. In addition, the Nominating Committee shall consult with the Health Physics Society, the American Association of Physicists in Medicine and other organizations having interest in these matters for their input and nominations in the selection process. (Although no fixed number of such appointments are required, it is desirable to have some positions on the ABHP selected from nominations by the scientific societies.) The Nominating Committee shall also seek expressions of interest from members of the Academy for all vacancies that occur. After completing the survey of the Academy membership, the ABHP, and the scientific societies, the Nominating Committee shall present its list of potential candidates, with an indication of their willingness to serve, to the Executive Committee at least 30 days prior to the Annual Meeting of the Academy.
- H. The Finance Committee consists of three members:
  1. One of the members is the Treasurer.
  2. The second member is, in alternate years, the immediate Past-Secretary or the immediate Past-Treasurer.
  3. The third member is a member designated by the ABHP Chairman.
  4. The Chairperson shall be the Past-Treasurer or the Treasurer in the second year of his/her term of office.
  5. The Finance Committee shall establish the budget cycle and a proposed budget for each year's operation of the Academy. It shall include the budget submission received from the ABHP.
  6. The Finance Committee shall submit its proposed budget to the Executive Committee forty-five (45) days prior to the Annual Meeting of the Academy.
- I. The Continuing Education Committee consists of six members of the Academy. The Committee shall endeavor to identify developments in the field of health physics which certified health physicists should be knowledgeable of and shall encourage technical programs discussing these developments. The Committee is responsible to establish the criteria for the awarding of continuing education credits in the certification renewal program and to evaluate and award credits to

- J. The Exam Site Committee shall establish
  1. a Finance Committee
  2. a Continuing Education Committee
  3. a Nominating Committee
  4. an Exam Site Committee
  5. a Professional Standards and Ethics Committee
  6. a Professional Development Committee
  7. a Continuing Education Committee
  8. such other committees and administrative posts as may be required for the efficient administration of Academy affairs.
- K. The members of committees are recommended by the President and approved by the Executive Committee.
- L. The term of a committee appointment is three years. Additional terms may be allowed following review by the Executive Committee. Committee Chairpersons are appointed for a one year term each but may succeed themselves in office. The rules of this subsection (C) apply to all committees except the Finance Committee, which is addressed in Section H, below.
- M. With the exception of the recommendations of the Nominations Committee for Executive Committee vacancies, all recommendations of Committees are subject to the review and approval of the Executive Committee.
- N. The Nominating Committee consists of nine members of the Academy. No current member of the Executive Committee or ABHP shall be a member of the Nominating Committee. All recommendations of the Committee are made by a majority of the total membership of the Committee.
- O. The Nominating Committee shall
  1. select nominees for each elective office to be filled giving due consideration to assure broad representation on the Executive Committee
  2. affirm that the nominee is
    - i. eligible to hold the office
    - ii. will accept the nomination
    - iii. will serve if elected
  3. submit to the Executive Committee a list of the nominees no later than the Winter Meeting (or January 1 if no Winter Meeting is scheduled) one year prior to the proposed beginning of the term of office.
- P. The Nominating Committee shall also assist the Executive Committee in the selection of candidates for vacancies on the ABHP. The Nominating Committee shall determine through consultation with the current ABHP any particular expertise and background that may be important for the new ABHP member to possess and shall seek recommendations from the ABHP. In addition, the Nominating Committee shall consult with the Health Physics Society, the American Association of Physicists in Medicine and other organizations having interest in these matters for their input and nominations in the selection process. (Although no fixed number of such appointments are required, it is desirable to have some positions on the ABHP selected from nominations by the scientific societies.) The Nominating Committee shall also seek expressions of interest from members of the Academy for all vacancies that occur. After completing the survey of the Academy membership, the ABHP, and the scientific societies, the Nominating Committee shall present its list of potential candidates, with an indication of their willingness to serve, to the Executive Committee at least 30 days prior to the Annual Meeting of the Academy.

## VIII. FINANCE

- A. The budget for the Academy and the ABHP shall be approved by the Executive Committee on a yearly basis.
- B. The Executive Committee shall establish the application fee for the certification exams and the certification renewal fee, as to assure revenue for the Academy and the ABHP.
- C. The Executive Committee shall establish any additional fees necessary to finance the activities of the Academy.

## IX. MEETINGS OF THE ACADEMY

- A. There shall be an annual meeting of the Academy each year. This meeting will normally be held in conjunction with the Annual Meeting of the Health Physics Society.
- B. Special meetings of the Academy may be called by the President or by petition of 25 members of the Academy. The topic of the special meeting shall be clearly identified and must fall within the objectives of the Academy.
- C. Academy members shall be given at least thirty (30) days prior notification of all special meetings and shall receive an agenda of the business of the meeting.
- D. Any member of the Academy may request and be granted time to make proposals or discuss problems that fall within the objectives and purposes of the Academy at any meeting of the Executive Committee or at the Annual Meeting of the Academy. Such requests shall be placed on the appropriate agenda if
  1. the request is in writing
  2. the request is received by an officer of the Academy at least forty-five (45) days prior to a meeting of the general membership for which the request is made
  3. the request is germane to the affairs of the Academy, there are no quorum requirements, proxies are not permitted, and decisions on matters brought to a vote are reached by a majority of those members present at the meeting. The President is authorized to grant a proxy in the event of a conflict of interest for a meeting of the Academy. The President may also grant a proxy in the event of a conflict of interest for a meeting of the Academy. The President may also grant a proxy in the event of a conflict of interest for a meeting of the Academy.
- E. At all meetings of the general membership of the Academy, there are no quorum requirements. Proxies are not permitted, and decisions on matters brought to a vote are reached by a majority of those members present at the meeting. The President is authorized to grant a proxy in the event of a conflict of interest for a meeting of the Academy. The President may also grant a proxy in the event of a conflict of interest for a meeting of the Academy.
- F. All meetings of the general membership of the Academy are open to Associate Members.

## BALLOTS

- A. Within sixty (60) days following receipt of the report of the Nominating Committee, the Secretary shall prepare a suitable ballot with provisions for write-in candidates. One such ballot shall be mailed to each member of the Academy. The ballot shall be a secret ballot; it shall be closed on the thirtieth (30th) day following the mailing of the last ballot to the membership.
- B. A committee of three (3) independent CHPs selected by the Secretary shall be responsible for tallying the vote. A plurality as based on the number of votes cast is sufficient to elect. In the event of a tie vote, the tie shall be broken by a suitable lottery established by the Secretary. All ballots shall be maintained by the Secretary. He shall forward the results of the tally to the members of the Executive Committee. Following receipt of the vote by the Executive Committee, the President shall inform the membership of the results of the election.
- C. Resolutions or amendments to the bylaws submitted to the membership for a vote shall be submitted within sixty (60) days following approval of the vote at a general meeting of the Academy or at an Executive Committee meeting. The procedure for the mailing of the ballot and the tallying of the vote shall be the same as defined in Sections A and B above.
- D. All pertinent propositions for and against a resolution or amendment to the bylaws submitted to the membership shall be presented so as to enable a member to evaluate the matter carefully. The President shall review the wording with interested parties in order to assure equity of presentation.
- E. In a poll conducted under this process, a decision is determined by a majority of those members voting. Decisions gathered by the process are binding upon the Executive Committee.

## CODE OF ETHICS

- A. As a member of the Academy, a CHP has certain obligations and responsibilities to the profession of health physics. These include the requirements:
  1. to maintain professional competency, the CHP has a commitment to remain active in the field of health physics and be acquainted with contemporary scientific, technical and regulatory developments.
  2. to uphold the professional integrity of health physics implied in his certification, the relations of a CHP with other individuals and the public, clients, colleagues, governmental agencies, and the general public, and to uphold the highest standards of professional ethics as based on integrity.
  3. The CHP shall represent him/herself as an authority only in those areas in which he/she can be considered an expert by virtue of past training and experience.
- B. A member of the Academy may be censured, suspended, or expelled from the Academy for violation of the code of ethics of the Academy.
  1. A complaint that a member has violated the code of ethics of the Academy may be filed with the President of the Academy. The President shall review the complaint with the members of the Executive Committee at the next regular meeting of the Committee. If the Executive Committee believes the complaint is not frivolous, the President shall refer the matter to the Professional Standards and Ethics Committee who shall hear the matter within a reasonable length of time.
  2. Written notice shall be sent by registered or certified mail to the member in question at least forty-five (45) calendar days prior to a meeting of the Committee. The notice shall:
    - i. Inform the member of the name of the person or persons filing the complaint and the facts of the complaint.
    - ii. State the time and place of the meeting of the Committee.
    - iii. Advise that the member may appear in person at the meeting with legal or other representative and may submit such evidence as the member deems appropriate.
    - iv. Advise the member in question that failure to reasonably cooperate with an ethics investigation is sufficient grounds for suspension.
  3. A majority of the Committee shall determine the action to be taken; the Chairperson shall notify the President of the Academy and all involved members of the decision.
  4. The decision of the Committee may be appealed to the Executive Committee by sending written notice of appeal to the President of the Academy within thirty (30) calendar days of the mailing of the

notice of decision. The Executive Committee shall notify the member by registered or certified mail thirty (30) calendar days in advance of any meeting at which the appeal will be heard. A majority of the Executive Committee shall determine final action on the appeal.

- C. An Associate Member of the Academy shall not represent himself or herself as a CHP or in any manner that implies certification by the ABHP. Any such complaints in this regard will be resolved by the Professional Standards and Ethics Committee.

## XII. DISSOLUTION

In the event of dissolution or final liquidation of the Academy, all of its assets remaining after payment of its obligations shall have been provided for, shall be distributed to the ABHP. In addition, unless otherwise established and agreed to by the Health Physics Society in such an event the Bylaws of the ABHP shall revert to those approved by the Health Physics Society at the time of the formation of the ABHP in 1960.

## XIII. AMENDMENTS AND MISCELLANEOUS

- A. Amendments to the Bylaws may be proposed
  1. at any meeting of the membership by majority vote of the members present and voting
  2. by petition bearing the signatures of at least ten percent of the members of the Academy or
  3. by the Executive Committee.
- B. Proposed amendments shall be submitted to the members of the Academy by the Secretary in accordance with the procedures of Article X.
- C. In questions pertaining to the conduct of meetings of the Academy not covered by the bylaws or formally established policies of the Academy, Robert's Rules of Order shall prevail.

| DESIGNATOR | COURSE TITLE  | COURSE SPONSOR                      | DATE PRESENTED         | CECS |
|------------|---|-------------------------------------|------------------------|------|
| 87- 138    | Internal Dosimetry Calculations using the INMOS Computer Code                 | University of Lovell                | 09/22/87 - 09/22/87 0* |      |
| 87- 139    | Response of Geiger Mueller Detectors  | TGM Detectors                       | 12/03/87 - 12/03/87 0* |      |
| 87- 140    | Nuclear Magnetic Resonance Imaging & Tour of Albany Medical Ctr. NMR Facility | Albany Medical Center               | 04/02/87 - 04/02/87 0* |      |
| 87- 141    | ICRP Meeting - Oxford, England  | ICRP                                | 01/01/87 - 01/01/87 0* |      |
| 87- 142    | ICRP Meeting - COMO   | ICRP                                | 09/07/87 - 09/12/87 03 |      |
| 87- 143    | Fall Technical Meeting  | Rio Grande Chapter, NPS             | 11/13/87 - 11/13/87 02 |      |
| 87- 146    | Uitgangspunten en concepten die een rol                                       | NYS-Nederlandsse Vereniging         | 11/27/87 - 11/27/87 02 |      |
| 87- 147    | All Agreement State Meeting   | U.S. Nuclear Regulatory Comm.       | 10/07/87 - 10/09/87 02 |      |
| 87- 148    | American Industrial Hygiene Conference  | AIHA                                | 05/31/87 - 06/05/87 2  |      |
| 87- 149    | New Dev. in Aerosol Sampling  | AIHA                                | 05/31/87 - 05/31/87 0* |      |
| 87- 150    | Ontario Hydro Station NPS Conf.   | Pickering Nuclear Gen. Sta.         | 12/01/87 - 12/02/87 03 |      |
| 87- 151    | 6th Annual Panasonic TLD Meeting  | Panasonic Industrial                | 06/15/87 - 06/19/87 02 |      |
| 87- 152    | Internal Dosimetry  | Quantum Technology                  | 10/13/87 - 10/16/87 03 |      |
| 87- 153    | Internal Dosimetry & Bioassay   | US NRC                              | 05/12/89 - 05/13/89 02 |      |
| 87- 154    | Nuclear Power Performance and Safety  | INRA                                | 09/28/89 - 10/02/89 04 |      |
| 87- 155    | NRC Fundamentals of Inspection Course   | USNRC                               | 09/14/87 - 09/15/87 0* |      |
| 87- 157    | Health Physics Department Seminar Series                                      | Battelle Pacific Northwest Lab.     | 01/07/87 - 12/03/87 02 |      |
| 87- 156    | Environ. Exposition for Business & Industry                                   | Environ. Exposition Advisory Board  | 10/20/87 - 10/21/87 *  |      |
| 87- 159    | Incorporation of Low Level Radioactive Mixed Waste                            | U.C. Irvine, INRA, DOS              | 04/21/87 - 04/24/87 *  |      |
| 87- 160    | Management of Radiation Accidents   | University of WM School of Medicine | 10/01/87 - 01/03/87 *  |      |
| 87- 161    | RSNA Refresher #218   | RSNA                                | 11/27/87 - 11/27/87 *  |      |
| 87- 162    | RSNA Refresher #418   | RSNA                                | 11/27/87 - 11/27/87 *  |      |
| 87- 163    | RSNA Refresher #518   | RSNA                                | 11/27/87 - 11/27/87 *  |      |
| 87- 165    | NRI Consensus Conference on MRI   | National Institute of Health        | 10/26/87 - 10/29/87 *  |      |
| 87- 166    | Nuclear Magnetic Resonance Imaging  | Northeastern New York Chapter NPS   | 04/02/87 - 04/02/87 *  |      |
| 87- 167    | Tri-Chapter Meeting-Symposium on Changing and Their Impact                    | Northeastern New York Chapter NPS   | 10/19/87 - 10/19/87 *  |      |
| 87- 168    | In Vivo NMR Research Ctr. Dedication Ceremony and Scientific Symposium        | National Institutes of Health       | 10/22/87 - 10/23/87 .5 |      |
| 87- 169    | The Critical Path   | USDOR / EGEG Idaho                  | 06/28/87 - 07/01/87 *  |      |
| 87- 170    | American Nuclear Society Winter Meeting                                       | American Nuclear Society            | 11/15/87 - 11/19/87 *  |      |
| 87- 171    | Savannah River Chapter Meeting  | Savannah River Chapter, NPS         | 01/29/87 - 01/29/87 *  |      |
| 87- 172    | Savannah River Chapter Meeting  | Savannah River Chapter, NPS         | 02/12/87 - 03/12/87 *  |      |
| 87- 173    | Savannah River Chapter Meeting  | Savannah River Chapter, NPS         | 11/05/87 - 11/05/87 *  |      |
| 88- 122    | Incro. to Internal Dosimetry  | Canberra Industries, Inc.           | 10/31/88 - 11/04/88 06 |      |
| 88- 123    | NRC Refresher Site Access Training  | USNRC                               | 02/04/88 - 02/04/88 0* |      |
| 88- 124    | Below Regulatory Concern Radwaste Disposal                                    | Mechanical Engineering Dept.        | 11/07/88 - 11/11/88 04 |      |
| 88- 125    | International Symposium on Uranium & Electric                                 | Canadian Nuclear Society            | 09/18/88 - 09/21/88 03 |      |
| 88- 126    | Effective Hot Particle Control Programs                                       | Technical Management Services, Inc. | 10/17/89 - 10/19/89 4  |      |
| 88- 127    | Health Physics Department Seminar Series                                      | Battelle Pacific Northwest Lab.     | 02/04/88 - 12/13/88 02 |      |
| 88- 128    | Criticality Alarm Systems Workshop  | USDOR and ORNL                      | 09/20/88 - 09/22/88 *  |      |
| 88- 129    | Certification Review for Health Physicists                                    | Reynolds Electrical & Engineering   | 01/04/88 - 01/09/88 *  |      |
| 88- 130    | 7th Annual Mtg. of the SHRM   | SHRM                                | 08/20/88 - 08/25/88 *  |      |
| 88- 131    | RSNA Refresher #A02   | RSNA                                | 11/27/88 - 11/27/88 *  |      |

| DESIGNATOR | COURSE TITLE  | COURSE SPONSOR              | DATE PRESENTED      | CECS | DESIGNATOR | COURSE TITLE  | COURSE SPONSOR          | DATE PRESENTED | CECS                    |
|------------|---|-----------------------------|---------------------|------|------------|---|-------------------------|----------------|-------------------------|
| 88- -132   | RSMA Refresher #317   | RSMA                        | 11/27/88 - 11/27/88 | *    | 89- -0421i | Particle Size and Inhalation Hazard - WPH-7                     | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 88- -133   | RSMA Refresher #520   | RSMA                        | 11/27/88 - 11/27/88 | *    | 89- -042j  | Food Irradiation in the world today - 2c                        | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 88- -134   | RSMA Refresher #607   | RSMA                        | 11/27/88 - 11/27/88 | *    | 89- -042j) | Relationship of Particle Sizing & Pulmonary Hazard - WPH-8      | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 88- -135   | Imaging Living Brain Chemistry: Princ.& Prac.                               | Johns Hopkins Medical Inst. | 03/17/88 - 03/18/88 | *    | 89- -042k  | HP Concerns in a Nuclear Medicine Dpt. - 2d                     | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 88- -136   | Savannah River Chapter Meeting  | Savannah River Chapter, HPS | 10/11/88 - 10/11/88 | *    | 89- -042l  | Real-Life Whole Body Counting - 2e                              | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042a  | Fundamental ICRP-26 & ICRP-30   | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042m  | Offsite Dose Projections for Radiological Emergencies - 2f      | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042aa | Medical Doses, Clinical & Occupational - 4d                                 | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042n  | Fundamentals of Lasers and Their Safe Use - 2g                  | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042b  | Licensing Requirements for Land Disposal of Radioactive Waste               | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042o  | Workshop for the ABHP Part I Certification Exam. - 2h           | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042bb | Beta-Hot Particle Dosimetry - 4e  | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042p  | Fundamentals of Radiation Injury - 3a                           | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042cc | Strategies for Design of Air Sampling Systems - 4f                          | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042q  | Managing Mixed Waste - 3b                                       | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042d  | Radiation Dosimetry & Protection in Diagnostic Radiology - 1d               | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042r  | HP Implications of Reactor Water Chemistry - 3c                 | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042dd | Hazard Communications & Professional Liability - 4g                         | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042s  | Survey of Medical Instrumentation - 3d                          | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042e  | Microdosimetry - 1e   | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042t  | Recent Advances in CR-39 Personnel Neutron Dosimetry - 3e       | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042ee | Fundamentals of Portable Survey Instruments - WPH-A                         | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042u  | Radiological Characterization of Surface Soil - 3f              | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042f  | Radon and Radon Daughter Measurements                                       | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042v  | Self-Assessment of Health Physics Program - 3g                  | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042ff | Radon Mitigation - WPH-Y  | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042w  | ABHP Exam. Review - Part II - 3b                                | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042g  | Health Physics Program Audits   | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042x  | Fundamentals of Thermoluminescent Dosimetry - 4a                | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042gg | Waste Classification-History, Standards & Requirements for Disposal - WPH-B | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042y  | HP Implications for Low-Level Radioactive Waste Management - 4b | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042h  | Fundamentals of Radon - 2a  | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -042z  | Radiography - Current Status - 4c                               | HPS 1989 Annual Meeting | PEPs           | 06/25/89 - 06/25/89 04# |
| 89- -042hh | Industrial Hygiene Concerns for Health Physics - WPH-C                      | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  | 89- -043   | Hot Particle Origins Properties and Controls                    | Palo Verde HGS          |                | 03/17/89 - 03/17/89 02# |
| 89- -042i  | Below Regulatory Concern - 2b   | HPS 1989 Annual Meeting     | 06/25/89 - 06/29/89 | 04#  |            |   |                         |                |                         |

| DESIGNATOR | COURSE TITLE                                 | COURSE SPONSOR                      | DATE PRESENTED  | CACS | DESIGNATOR | COURSE TITLE                                    | COURSE SPONSOR                      | DATE PRESENTED  | CACS |
|------------|--|-------------------------------------|---|------|------------|---|-------------------------------------|---|------|
| 89-081     | 7th Annual Spring Conference - Cal Rad Forum | Allied Technology                   | 04/24/89 - 04/24/89   | 024  | 89-102     | Hazardous Materials Considerations for the HP   | HPS Annual Meeting-CRC              | 06/26/89 - 06/26/89   | 024  |
| 89-082     | Management of Electromagnetic Energy Hazards | Rutgers University                  | 10/17/89 - 10/19/89   | 064  | 89-103     | Public Information Training: Dealing w/Media    | HPS Annual Meeting-CRC              | 06/27/89 - 06/27/89   | 024  |
| 89-083     | Below Regulatory Concern Concept             | Society & Association Services Corp | 10/03/89 - 10/05/89<br>10/23/89 - 10/25/89<br>11/13/89 - 11/15/89 | 34   | 89-104     | Role of the HP in Conduct of Pub. Ed. on LRRW   | HPS Annual Meeting-CRC              | 06/27/89 - 06/27/89   | 024  |
| 89-084     | Technical Meeting of the WNY Chapter, HPS    | Western New York Chapter, HPS       | 05/12/89 - 05/12/89   | 024  | 89-105     | Public Information Workshop: Programs That Work | HPS Annual Meeting-CRC              | 06/28/89 - 06/28/89   | 024  |
| 89-085     | Second Annual Biosafety Conf. for HP         | WRC/Chapel Hill Occup. Saf.         | 07/10/89 - 07/12/89   | 0*   | 89-106     | Update on Status of Proposed Trans. Reg. Rev.   | HPS Annual Meeting-CRC              | 06/28/89 - 06/28/89   | 024  |
| 89-086     | Radiation Protection Managers Annual Meeting | Iowa Electric Light & Power Co.     | 05/23/89 - 05/23/89   | 024  | 89-107     | Role of the HP in Conduct of Pub. Ed. on LRRW   | HPS Annual Meeting-CRC              | 06/29/89 - 06/29/89   | 024  |
| 89-087     | Human Performance Evaluation System          | INPO                                | 07/17/89 - 07/19/89   | 024  | 89-108     | Internal Dose Assessment                        | Technical Management Services, Inc. | 11/14/89 - 11/18/89   | *    |
| 89-088     | CMS 1989 Modular Users Group Meeting         | Computerized Medical Systems        | 04/26/89 - 04/28/89   | 044  | 89-109     | Air Sampling                                    | Technical Management Services, Inc. | 01/25/89 - 01/27/89   | 34   |
| 89-089     | Radiological Protection Program Assessment   | Technical Management Services, Inc. | 11/13/89 - 11/15/89   | *    | 89-110     | Radiation Detection & Measurement               | Technical Management Services, Inc. | 02/06/89 - 02/10/89   | 44   |
| 89-090     | Society For Risk Analysis Annual Meeting     | Society for Risk Analysis           | 10/29/89 - 11/01/89   | *    | 89-111     | Contamination Control                           | Technical Management Services, Inc. | 03/20/89 - 03/21/89   | 34   |
| 89-091     | Critical Issues--Relevant Strategies         | Electromagnetic Energy Policy Allia | 10/17/89 - 10/19/89   | *    | 89-112     | Hot Particle Control Training                   | Technical Management Services, Inc. | 03/22/89 - 03/23/89   | 34   |
| 89-092     | Seminar on Protection of the Fetus           | Illinois Dept. of Nuclear Safety    | 09/26/89 - 09/26/89   | *    | 89-113     | Internal Dose Assessment                        | Technical Management Services, Inc. | 04/24/89 - 04/28/89   | *    |
| 89-093     | Low Level Radioactive Waste Generators       | Illinois Dept. of Nuclear Safety    | 12/12/89 - 12/12/89   | *    | 89-114     | Radioactive Sample Analysis                     | Technical Management Services, Inc. | 05/15/89 - 05/19/89   | 44   |
| 89-094     | X-Ray And Radioactive Material Users Conf.   | Illinois Dept. of Nuclear Safety    | 12/13/89 - 12/13/89   | *    | 89-115     | Applied Gamma Spectroscopy                      | Technical Management Services, Inc. | 09/18/89 - 09/22/89   | 54   |
| 89-095     | Winter 1989 AMS Meeting                      | American Nuclear Society            | 10/25/89 - 10/28/89   | *    | 89-116     | Air Sampling                                    | Technical Management Services, Inc. | 10/19/89 - 10/20/89   | *    |
| 89-096     | Great Lakes Chapter HPS Meeting              | Great Lakes Chapter, HPS            | 10/27/89 - 10/27/89   | *    | 89-118     | Certification Review Course for Health Physic   | Skrable Enterprises, Inc.           | 03/19/89 - 03/24/89   | 84   |
| 89-097     | 28th Hanford Symposium on Health & Environ.  | USDOP, Battelle                     | 10/16/89 - 10/19/89   | *    | 89-113     | Technical Meeting of Western New York Chapter   | Western New York Chapter, HPS       | 03/31/89 - 03/31/89<br>06/15/89 - 06/16/89<br>09/05/89 - 09/05/89 | 24   |
| 89-098     | NICHRad Fall Conference                      | NICHRAD                             | 10/24/89 - 10/24/89   | *    | 89-120     | Handling of Radiation Accidents by Emergency    | Oak Ridge Associated Universities   | 09/26/89 - 09/29/89   | 54   |
| 89-099     | Neutron Personnel Dosimetry                  | ORAU                                | 11/14/89 - 11/16/89   | *    | 89-121a    | Meeting of Campus Radiation Safety Officers     | Campus Radiation Safety Officers    | 07/18/89 - 07/19/89   | *    |
| 89-100     | New Medical Initiatives Workshop             | USNRC                               | 09/15/89 - 09/15/89   | *    | 89-122     | Life Sciences Retreat                           | Lawrence Berkeley Laboratory        | 09/19/89 - 09/20/89   | 14   |
| 89-101     | CRC-Writing Successfully for HP Journal      | HPS Annual Meeting-CRC              | 06/26/89 - 06/26/89   | 024  | 89-123     | Medical Use of Radioisotopes Workshop           | U.S. Nuclear Regulator Commission   | 09/07/89 - 09/07/89   | 14   |

| DESIGNATOR | COURSE TITLE   | COURSE SPONSOR                       | DATE PRESENTED  | CRCs | DESIGNATOR | COURSE TITLE  | COURSE SPONSOR                      | DATE PRESENTED   | CRCs   |
|------------|--|--------------------------------------|---|------|------------|---|-------------------------------------|--|--|
| 89- -124   | ABHP Certification Preparation Course  | East Tennessee Chapter, HPS          | 04/12/89 - 06/14/89   | 81   | 89- -144   | Basic Health Physics  | Nuclear Science Center              | 12/11/89 - 12/15/89<br>05/14/90 - 05/18/90<br>12/01/90 - 12/01/90                        | 12/11/89 - 12/15/89<br>05/18/90 - 05/18/90<br>12/01/90 - 12/01/90                        |
| 89- -125   | Implementation of the New 10CFR70  | Technical Management Services, Inc.  | 10/16/89 - 10/16/89   | 34   | 89- -146   | Technical Conference  | Brookhaven National Laboratory      | 09/18/89 - 09/22/89  | 09/18/89 - 09/22/89  |
| 89- -126   | Wort Accident/Incident Investigation Workshop  | System Safety Development Center     | 07/24/89 - 08/04/89   | 34   | 89- -147   | Autumn Chapter Meeting  | Cascade Chapter Health Physics Soc. | 10/27/89 - 10/27/89  | 10/27/89 - 10/27/89  |
| 89- -127   | Environmental Laws & Regulations Compliance  | Westinghouse Savannah River Company  | 09/19/89 - 09/20/89<br>10/18/89 - 10/17/89<br>11/05/89 - 11/05/89   | 34   | 89- -148   | Health Physics Technology   | USNRC Technical Training Center     | 12/04/89 - 12/15/90  | 12/04/89 - 12/15/90  |
| 89- -128   | ACURI 89 Annual Meeting  | Penn State University                | 11/02/89 - 11/03/89   | 34   | 89- -149   | Radiation Protection Directors' Meeting   | NRC Region III Utilities            | 11/28/89 - 11/28/89  | 11/28/89 - 11/28/89  |
| 89- -129a  | Annual Technical Meeting of CRNCRPS  | Central Rocky Mountain Chapter, HPS  | 04/11/89 - 04/11/89   | 024  | 89- -150   | Implementation of the New Part 20   | Alexander Corporation               | 09/22/89 - 09/29/89  | 09/22/89 - 09/29/89  |
| 89- -129b  | Special Topics Workshop  | USNRC                                | 11/28/89 - 12/01/89   | *    | 89- -151   | VA Chapter American College of Radiology  | VA Chapter American College Radiol. | 11/11/89 - 11/11/89  | 11/11/89 - 11/11/89  |
| 89- -130   | Low-Level Waste Disposal Regulatory Meeting  | USNRC                                | 11/15/89 - 11/16/89   | 034  | 89- -152   | Title I/II, SARA & OSHA/Hazard Communication  | RGSO                                | 05/25/89 - 05/25/89  | 05/25/89 - 05/25/89  |
| 89- -131   | Offsite Emergency Radiological Monitoring Class:Emergency Phase & Intermediate Phase | Porter Consultants                   | 10/13/89 - 10/14/89<br>10/12/89 - 10/13/89<br>10/09/89 - 10/19/89<br>10/10/89 - 10/11/89<br>10/09/89 - 10/13/89 | *    | 89- -153   | Hazardous Chemicals & Safe Practices  | RGSO                                | 05/16/89 - 05/17/89  | 05/16/89 - 05/17/89  |
| 89- -132   | Below Regulatory Concern Radwaste Disposal   | University of Texas                  | 10/09/89 - 10/13/89   | *    | 89- -154   | Human Perception  | RGSO                                | 03/01/89 - 06/01/89  | 03/01/89 - 06/01/89  |
| 89- -133   | 1st Int'l Conf. on Radioactive Nuclear Beams   | USDOE                                | 10/16/89 - 10/18/89   | 04   | 89- -155   | Environmental Ergonomics  | RGSO                                | 06/01/89 - 08/01/89  | 06/01/89 - 08/01/89  |
| 89- -134   | 4th Annual Meeting Am. Assoc. Aerosol Research                                       | American Assoc. for Aerosol Research | 10/10/89 - 10/13/89   | 04   | 89- -156   | Risk Estimates - 1989   | B/W Chapter Health Physics Society  | 09/21/89 - 09/21/89  | 09/21/89 - 09/21/89  |
| 89- -135   | Workshop on Management of Radioactivity Contaminated Sites                           | USRPA                                | 11/01/89 - 11/01/89   | *    | 89- -157   | New Air Standards for Radionuclides   | B/W Chapter Health Physics Society  | 11/16/89 - 11/16/89  | 11/16/89 - 11/16/89  |
| 89- -136   | DOE Defense Programs Restoration   | USDOE                                | 10/29/89 - 10/31/89   | *    | 89- -158   | Safety System Function Inspections  | American Nuclear Society Michigan   | 12/07/89 - 12/07/89  | 12/07/89 - 12/07/89  |
| 89- -137   | American Nuclear Society Winter Meeting  | American Nuclear Society             | 11/15/89 - 11/19/89   | *    | 89- -159   | Internal Radiation Dosimetry  | Strable Enterprises, Inc.           | 06/11/89 - 06/16/89  | 06/11/89 - 06/16/89  |
| 89- -138   | 1888 1989 Nuclear Science Symposium  | Lawrence Livermore Laboratory        | 10/25/89 - 10/27/89   | *    | 89- -160   | Fundamentals of Radiological Health Physics   | Strable Enterprises, Inc.           | 06/11/89 - 06/16/89  | 06/11/89 - 06/16/89  |
| 89- -139   | Biennial Campus Radiation Safety Officers  | Campus Radiation Safety Officers     | 11/01/89 - 11/01/89   | *    | 89- -161   | Advanced Radiological Health Physics  | Strable Enterprises, Inc.           | 06/18/89 - 06/23/89  | 06/18/89 - 06/23/89  |
| 89- -140   | 1989 Fall Meeting-CA Radiation Forum   | CA Radioactive Materials Mgmt. Forum | 11/20/89 - 11/21/89   | *    | 89- -162   | Int'l Workshop in New Developments in Occup. Dose Control & ALARA Imp. at HPP & SWM, Pac. | USNRC and USDOE                     | 09/18/89 - 09/21/89  | 09/18/89 - 09/21/89  |
| 89- -141   | Radwaste Packaging & Shipping  | Portland General Electric            | 10/17/89 - 10/19/89   | *    | 89- -163   | Industrial Hygiene Air & Waste Management Activities in New Mexico                        | IM Chapter Air & Waste Mgmt. Assn.  | 11/01/89 - 11/02/89  | 11/01/89 - 11/02/89  |
| 89- -142   | Internal Dose Assessment   | Technical Management Services, Inc.  | 12/04/89 - 12/08/89   | *    | 89- -164   | Radioactive Materials Shipping Requirements   | General Physics Corporation         | 10/30/89 - 11/03/89<br>12/11/89 - 12/15/89<br>06/11/90 - 06/15/90<br>12/10/90 - 12/14/90 | 10/30/89 - 11/03/89<br>12/11/89 - 12/15/89<br>06/11/90 - 06/15/90<br>12/10/90 - 12/14/90 |
| 89- -143   | Annual All-States Meeting  | USNRC                                | 10/11/89 - 10/13/89   | *    |            |   |                                     |  |  |

| DESIGNATOR  | COURSE TITLE   | COURSE SPONSOR                      | DATE PRESENTED   | CECS | DESIGNATOR  | COURSE TITLE  | COURSE SPONSOR                      | DATE PRESENTED   | CECS |
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| 89- -165    | DNA Damage & Repair Studies in Rad. Sciences                                   | University of Pittsburgh            | 11/29/89 - 11/29/89  | *    | 90-01- -01d | American Association of Physicians in Medicine                            | American Assn. of Physicians in Med | -  | +    |
| 89- -166    | 26th BEI BP Committee Meeting  | BEI                                 | 10/02/89 - 10/04/89  | *    | 90-01- -01e | National Council for Radiation Protection and Measurement                 | Nat'l Council for Rad. Prot.& Meas. | -  | +    |
| 89- -167    | 7th Annual Mtg. of the SHRI  | SHRI                                | 02/25/89 - 03/01/89  | *    | 90-01- -01f | Society for Nuclear Medicine  | Society for Nuclear Medicine        | -  | +    |
| 89- -168    | 8th Annual Mtg. of the SHRI  | SHRI                                | 08/12/89 - 08/18/89  | *    | 90-01- -01g | Radiation Research Society  | Radiation Research Society          | -  | +    |
| 89- -169    | RSNA Refresher #319  | RSNA                                | 11/27/89 - 11/27/89  | *    | 90-01- -01h | Conference of Radiation Control Program Directors                         | Conf. of Rad. Control Prog. Direct. | -  | +    |
| 89- -170    | RSNA Refresher #217  | RSNA                                | 11/27/89 - 11/27/89  | *    | 90-01- -01i | Radiological Society of North America                                     | Radiological Society of North Amer. | -  | +    |
| 89- -171    | Workshop-Effects of Extremely Low Frequency Electromagnetic Radiation          | National Academy of Sciences        | 03/14/89 - 03/14/89  | *    | 90-01- -01j | International Radiation Protection Assn.                                  | Int'l Rad. Protection Assn.         | -  | +    |
| 89- -172    | Image Management and Communication   | IMAC                                | 06/04/89 - 06/08/89  | *    | 90-01- -01k | American Industrial Hygiene Association                                   | American Industrial Hygiene Assn.   | -  | +    |
| 89- -173    | Great Lakes Chapter Health Physics Society                                     | Great Lakes Chapter HPS             | 12/18/89 - 12/18/89  | 0#   | 90-01- -01m | American Chemical Society Annual Meeting                                  | American Chemical Society           | -  | +    |
| 89- -174    | VA Chapter HPS Fall 1989 Wintergreen Meeting                                   | VA Chapter HPS                      | 11/03/89 - 11/05/89  | *    | 90-01- -01n | Annual Conference on Bioassay, Analytical, & Environmental Radiochemistry | Radiochemistry                      | -  | +    |
| 89- -175    | B/W Chapter HPS Chapter Meeting  | B/W Chapter HPS                     | 01/25/89 - 01/25/89  | 0#   | 90-01- -01o | Health Physics Society Local Chapter Meeting                              | Health Physics Society              | -  | 02#  |
| 89- -176    | Technical Meeting of the Western NY Chapter                                    | Western NY Chapter HPS              | 03/31/89 - 03/31/89  | 02#  | 90-01- -01p | American Nuclear Society Local Chapter Mtg.                               | American Nuclear Society            | -  | 02#  |
| 89- -177    | Savannah River Chapter Meeting   | Savannah River Chapter, HPS         | 01/26/89 - 01/26/89  | *    | 90-01- -01q | American Assn. of Physicians in Medicine                                  | American Assn. of Physicians in Med | -  | 02#  |
| 89- -178    | Savannah River Chapter Meeting   | Savannah River Chapter, HPS         | 09/27/89 - 09/27/89  | 2#   | 90-01- -01r | American Industrial Hygiene Association                                   | American Industrial Hygiene Assn.   | -  | 02#  |
| 89- -178a   | Respiratory Protection At Nuclear Facilities                                   | Radiation Safety Associates, Inc.   | 04/10/89 - 04/14/89  | *    | 90-01- -001 | Radiological Science - II   | Georgetown University               | 01/01/90 - 05/01/90  | 12#  |
| 89- -179    | Regulator & Awareness-Radioactive Waste Packaging, Transportation and Disposal | Detroit Edison                      | 04/15/89 - 04/27/89<br>04/27/89 - 04/27/89<br>04/27/89 - 04/27/89<br>05/27/89 - 05/27/89 | 2#   | 90-01- -002 | Health Physics in Radiation Accidents                                     | Oak Ridge Associated Universities   | 01/22/90 - 01/26/90  | 06#  |
| 89- -180    | Joint Symposium on Dosimetry of Administered Radionuclides                     | Amer. Col. Nuc. Phy./Soc. Nuc. Med. | 09/21/89 - 09/22/89  | *    | 90-01- -003 | Radioactive Sample Analysis   | Technical Management Services, Inc. | 01/22/90 - 01/26/90  | *    |
| 89- -181    | Women and Radiation  | New England Chapter, HPS            | 09/29/89 - 09/29/89  | 2#   | 90-01- -004 | Emergency Preparedness  | Duke Power Company                  | 01/10/90 - 01/10/90<br>01/31/90 - 01/31/90<br>06/27/90 - 06/27/90<br>10/03/90 - 10/03/90 | 12#  |
| 90-01- -01a | Health Physics Society 1990 Annual Meeting Nashville, CA                       | Health Physics Society              | 06/24/90 - 06/27/90  | +    | 90-01- -005 | Certification Examination Prep Course                                     | Baltimore Washington Chapter        | 01/01/90 - 06/01/90  | 12#  |
| 90-01- -01b | Health Physics Society 24th Mid-Year Meeting Raleigh, NC                       | Health Physics Society              | 01/21/91 - 01/25/91  | +    | 90-01- -006 | H-312: Internal Dosimetry & Whole Body Count.                             | USMRC Technical Training Center     | 01/22/90 - 01/26/90  | *    |
| 90-01- -01c | American Nuclear Society Annual Meeting  | American Nuclear Society            |  | +    | 90-01- -007 | Laser Hazard Assessment Course  | USAF School of Aerospace Medicine   | 01/05/90 - 01/12/90<br>08/12/90 - 08/17/90   | *    |



| DESIGNATOR | COURSE TITLE  | COURSE SPONSOR                   | DATE PRESENTED   | CECS   | DESIGNATOR | COURSE TITLE   | COURSE SPONSOR                      | DATE PRESENTED       | CECS                 |
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| 90-01-006  | Technical Staff & Mgrs. Training Program                            | Boston Edison Company            | 01/28/91<br>08/05/91<br>01/30/90                         | 02/01/90<br>03/20/90<br>03/23/90                         | 90-02-008  | American Board of Medicine's Ad Hoc Committee on Radiologic Technologists                | American Board of Medicine          | 02/23/90             | 02/23/90             |
| 90-01-009  | Decontamination & Decommissioning Workshop                          | ASTM E10-03                      | 01/22/90   | 01/25/90   | 90-02-009  | Recent Estimates of Cancer Risk  | San Onofre Nuclear Generating Sta.  | 02/15/90             | 02/15/90             |
| 90-01-010  | Nuclear Detection in Radiation Protection Nuclear Engineering #497H | Penn State University            | 01/08/90   | 04/30/90   | 90-02-010  | Louisiana Nuclear Society  | LA Chapter American Nuclear Society | 02/15/90             | 02/15/90 02#         |
| 90-01-011  | Winter Chapter Meeting  | Cascade Chapter HPS              | 01/19/90   | 01/19/90   | 90-02-011  | Beneficial Use of Municipal & Indus. Sludge  | University of Wisconsin - Milwaukee | 02/15/90             | 02/15/90             |
| 90-01-012  | Advanced Health Physics   | University of Idaho              | 01/16/90   | 05/01/90   | 90-02-012  | Beta Dosimetry Workshop for Phil. Elec. Co.  | Porter Consultants, Inc.            | 02/15/90             | 02/16/90             |
| 90-01-013  | Current Respiratory Protection Issues                               | Respirator Support Services      | 01/15/90<br>03/19/90<br>05/16/90<br>07/16/90<br>01/15/90 | 01/16/90<br>03/20/90<br>05/17/90<br>07/17/90<br>01/15/90 | 90-02-013  | Radon Hazards and Measurements Workshop  | Porter Consultants, Inc.            | 02/15/90             | 02/16/90             |
| 90-01-014  | Joint Meeting of HPS, AMS, AAPM                                     | HPS, AMS, AAPM                   | 01/15/90   | 01/15/90 02#   | 90-02-014  | Waste Management '90 - Working Towards a Clear Environment                               | University of Arizona, AMS, DOE     | 02/25/90             | 03/01/90             |
| 90-01-015  | Cascade Chapter HPS Winter Meeting                                  | Cascade Chapter, HPS             | 01/19/90   | 01/19/90 02#   | 90-02-015  | DOE & DOE Contractors Worker's Safety & Health Conference                                | US DOE                              | 02/26/90             | 02/28/90             |
| 90-01-016  | AMS Section Meeting   | American Nuclear Society         | 03/15/90   | 03/15/90 2#  | 90-02-016  | Health Physics Aspects of the Shippingport Reactor Decommissioning                       | New England Chapter, HPS            | 02/28/90             | 02/28/90 2#          |
| 90-01-017  | ABHP Certification Examination Review Course                        | Illinois Dept. of Nuclear Safety | 01/25/90   | 06/12/90   | 90-03-001  | Radon in Buildings   | Harvard School of Public Health     | 02/01/90<br>11/19/90 | 03/02/90<br>11/20/90 |
| 90-01-018  | Nuclear Detection in Radiation Protection                           | Penn State University            | 01/08/90   | 04/30/90   | 90-03-002  | 32nd Navy Occupational Health & Preventive Medicine Workshop                             | Navy Environmental Health Center    | 03/24/90             | 03/29/90             |
| 90-01-019  | Health Physics in Radiation Accidents                               | ORAU                             | 01/22/90   | 01/26/90   | 90-03-003  | Managing Hazardous Materials Emergencies in Biomedical Research Facilities               | National Institutes of Health       | 03/22/90             | 03/23/90             |
| 90-01-020  | Health & Safety Training for Hazardous Waste Site Work              | John Mathes & Associates, Inc.   | 01/22/90   | 01/24/90   | 90-03-004  | Certification Review for Health Physicists   | Strable Enterprises, Inc.           | 03/18/90             | 03/23/90             |
| 90-01-021  | Subcommittee on Dose Assessment                                     | USDOR                            | 01/23/90   | 01/25/90   | 90-03-005  | BP Data Management with Personal Computers   | Technical Management Services, Inc. | 03/12/90             | 03/15/90             |
| 90-02-001  | DOE and DOE Contractors Safety & Health Conf.                       | USDOR                            | 02/26/90   | 02/28/90   | 90-03-006  | Great Lakes Chapter Spring Symposium   | Great Lakes Chapter HPS             | 03/22/90             | 03/22/90 02#         |
| 90-02-002  | Meeting the Challenges of the '90s in Radiation Protection          | INPO                             | 02/05/90   | 02/07/90   | 90-03-007  | Fundamentals of Internal Dosimetry   | Washington State Univ./Tri-Cities   | 03/12/90             | 03/16/90             |
| 90-02-003  | Data Analysis & Interp. for Environ. Surveill                       | Oak Ridge National Laboratory    | 02/05/90   | 02/07/90   | 90-03-008  | Principles & Applications of Thermoluminescence  | Vicotech, Inc.                      | 03/06/90             | 03/08/90             |
| 90-02-004  | Overview of the NRC's Revised 10CFR Part 20                         | New Jersey Chapter HPS           | 02/07/90   | 02/07/90 02#   | 90-03-009  | Regulatory Aspects of the Hoc Particle Issue   | New England Chapter, HPS            | 03/27/90             | 03/27/90             |
| 90-02-005  | EPA Workshop on Risk Communication                                  | New Jersey Chapter HPS           | 02/07/90<br>02/06/90                                     | 02/07/90<br>02/06/90                                     | 90-03-010  | Educational Day on Radon   | American Medical Association        | 03/24/90             | 03/24/90             |
| 90-02-006  | Respirator Fit Testing  | Respirator Support Services      | 02/08/90<br>04/19/90<br>06/20/90<br>07/21/90<br>03/23/90 | 02/09/90<br>04/20/90<br>06/21/90<br>07/21/90<br>03/23/90 | 90-03-011  | Social Issues Affecting the Siting & Operat. of Low-level Radioactive Waste Disp. Facil. | NY State Energy Res. & Dev. Author. | 03/19/90             | 03/19/90             |
| 90-02-007  | DOE & DOE Contractors Worker's Safety &                             | US Department of Energy          | 02/26/90   | 02/28/90   |            |  |                                     |                      |                      |

| IGRATOR | COURSE TITLE   | COURSE SPONSOR                      | DATES PRESENTED  | CECS | DESIGNATOR  | COURSE TITLE   | COURSE SPONSOR                  | DATES PRESENTED   | CECS |
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| 03-012  | 3rd Annual Hazardous Waste Management Conference & Exhibition    | USEPA, NH Envir. Imp. Div., etc.    | 03/12/90 - 03/15/90  | *    | 90-06-001   | In-Place Filter Testing Workshop   | Harvard School of Public Health | 06/11/90 - 06/15/90<br>08/20/90 - 08/24/90  | *    |
| 03-013  | Field Trip to MI Elec. Power Coordination                        | American Nuclear Society            | 03/29/90 - 03/29/90  | 24   | 90-06-002   | Certification of Biological Safety Cabinets  | Harvard School of Public Health | 06/11/90 - 06/18/90<br>08/20/90 - 08/27/90  | *    |
| 03-014  | Workshop on Personnel Safety Interlocks                          | Continuous Electron Beam Ass. Fac.  | 03/29/90 - 03/30/90  | *    | 90-06-003   | Environmental Radiation Surveillance   | Harvard School of Public Health | 06/11/90 - 06/15/90   | *    |
| 04-001  | Spring Dale Trout Symposium                                      | Cascade Chapter HPS                 | 04/13/90 - 04/13/90  | 024  | 90-06-004   | Planning for Nuclear Emergencies   | Harvard School of Public Health | 06/18/90 - 06/22/90   | *    |
| 04-002  | 27th Meeting of the Health Physics Committee                     | Edison Electric Institute           | 04/01/90 - 04/04/90  | *    | 90-06-005   | Internal Radiation Dosimetry   | Skirble Enterprises, Inc.       | 06/04/90 - 06/08/90   | *    |
| 04-003  | 8th Annual Fall Conference - CAL RAD                             | CALRAD Materials Management Forum   | 04/29/90 - 04/30/90  | *    | 90-06-006   | Fundamentals of Radiological Health Physics  | Skirble Enterprises, Inc.       | 06/11/89 - 06/16/89   | *    |
| 04-004  | Respiratory Protection At Nuclear Facilities                     | Radiation Safety Associates, Inc.   | 04/23/90 - 04/27/90<br>10/15/90 - 10/19/90   | *    | 90-06-007   | Advanced Radiological Health Physics   | Skirble Enterprises, Inc.       | 06/18/90 - 06/16/90   | *    |
| 04-005  | Current Topics in Medical Physics                                | RAMPS                               | 04/20/90 - 04/20/90  | *    | 90-06-008   | Radioactive Materials Shipping Requirements  | General Physics Corporation     | 06/11/90 - 06/15/90<br>12/10/90 - 12/14/90<br>06/10/91 - 06/14/91<br>12/09/91 - 12/13/91<br>06/25/90 - 06/25/90 | 044  |
| 04-006  | Educational Day on Radon   | American Medical Association        | 04/28/90 - 04/28/90  | *    | 90-06-009a  | Fundamentals & Applications of ICRP-26/30  | HPS, PEP                        |   |      |
| 04-007  | Engineering Economics  | Philadelphia Electric Co.           | 04/11/90 - 06/20/90  | *    | 90-06-009aa | ANSI Z 136.1 Laser Standard Refresher  | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 04-008  | Management Problems of the Technical Person in a Membership Role | Fred Pryor Seminars                 | 04/18/90 - 04/18/90  | *    | 90-06-009b  | Fundamentals of Portable Survey Instruments  | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 04-009  | Risk Perception  | NY State Energy Res. & Dev. Author. | 04/26/90 - 04/26/90  | *    | 90-06-009bb | Liquid Scintillation Counting-Past, Present & Future                                   | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 04-010  | Spring Chapter Meeting   | Cascade Chapter, HPS                | 04/13/90 - 04/13/90  | 24   | 90-06-009c  | Classification/Disposal of Radioactive Wastes History, Legal & Regulatory Requirements | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 04-011  | Respiratory Protection for the Nuclear Indust                    | Darell Revis Assoc./Radiation Safet | 04/09/90 - 04/13/90  | *    | 90-06-009cc | Industrial Hygiene Concerns Involving Hazardous & Mixed Waste                          | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 05-001  | Radiation Protection Instrumentation                             | Harvard School of Public Health     | 05/07/90 - 05/11/90  | *    | 90-06-009d  | Statistical Quantification of Uncertainty in Radiation Protection Model                | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 05-002  | Basic Health Physics   | Nuclear Science Center              | 12/11/89 - 12/13/89<br>05/14/90 - 05/18/90<br>12/01/90 - 12/01/90                        | *    | 90-06-009dd | Preparation for the ABHP Part I Certification Exam                                     | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 05-003  | Respiratory Protection for all Workplaces                        | Respirator Support Services         | 05/21/90 - 05/24/90<br>08/14/90 - 08/17/90<br>10/09/90 - 10/12/90<br>11/26/90 - 11/29/90 | *    | 90-06-009e  | 10CFR61  | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 05-004  | Educational Day on Radon   | American Medical Association        | 05/19/90 - 05/19/90  | *    | 90-06-009ee | Preparation for the ABHP Part I Certification Exam                                     | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 05-005  | HOT Particle Control Training                                    | Technical Management Services, Inc. | 05/09/90 - 05/10/90  | *    | 90-06-009f  | Managing Mixed Waste   | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 05-006  | Contamination Control  | Technical Management Services, Inc. | 05/07/90 - 05/08/90  | *    | 90-06-009ff | Preparation for ABHP Part II Certification Exam  | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |
| 05-007  | Preparation for Health Physics Inspections Course                | Pt. Belvoir R D & E                 | 05/07/90 - 05/11/90  | *    | 90-06-009g  | Waste Processing   | HPS, PEP                        | 06/25/90 - 06/25/90   | 044  |

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| 06-0099g   | Preparation for ABHP Part II Certification Exam                   | 06/24/90 - 06/24/90 | 044  | 90-06-009r | Microdosimetry  | 06/25/90 - 06/25/90  | 044   |
| 06-0099h   | BRC: Political & Public Relations Implication                     | 06/25/90 - 06/25/90 | 044  | 90-06-009s | Operational Considerations of TL Dosimetry Systems: QA    | 06/25/90 - 06/25/90  | 044   |
| 06-0099hh  | Applications of Statistical Process Control for Power Reactor     | 06/26/90 - 06/26/90 | 044  | 90-06-009c | Problem Identifications/Resolutions                       | 06/25/90 - 06/25/90  | 044   |
| 06-0099j   | Design of Biosafety Programs                                      | 06/25/90 - 06/25/90 | 044  | 90-06-009u | Neutron Quality Factor                                    | 06/25/90 - 06/25/90  | 044   |
| 06-0099ll  | Uncertainty of Health Risk Assessment                             | 06/26/90 - 06/26/90 | 044  | 90-06-009v | Radon Mitigation  | 06/25/90 - 06/25/90  | 044   |
| 06-0099j   | Pulmonary Hazards and Particle Size Distrib.                      | 06/25/90 - 06/25/90 | 044  | 90-06-009w | A Review of Basic & Current Nuclear Transport Regulations | 06/25/90 - 06/25/90  | 044   |
| 06-0099j   | Radon Fundamentals  | 06/26/90 - 06/26/90 | 044  | 90-06-009x | Health Physics of Fusion                                  | 06/25/90 - 06/25/90  | 044   |
| 06-0099k   | Respiratory Protection  | 06/25/90 - 06/25/90 | 044  | 90-06-009y | Radiological Characterization of Surface Soil             | 06/25/90 - 06/25/90  | 044   |
| 06-0099kk  | Air Sampling  | 06/27/90 - 06/27/90 | 044  | 90-06-009z | Radiological Characterization of Surface Soil             | 06/25/90 - 06/25/90  | 044   |
| 06-0099l   | In Vivo Measurements of Internally Deposited Radioactive Material | 06/25/90 - 06/25/90 | 044  | 90-06-010  | Radioactive Materials Shipping Requirements               | 06/11/90 - 06/15/90<br>12/14/90<br>06/10/91<br>06/14/91<br>12/09/91<br>12/13/91<br>06/02/90 - 06/02/90 |   |
| 06-0099ll  | The Health Physics of Pregnancy                                   | 06/27/90 - 06/27/90 | 044  | 90-06-011  | Educational Day on Radon                                  | American Medical Association   |   |
| 06-0099m   | Instrumentation for Medical Health Physics                        | 06/25/90 - 06/25/90 | 044  | 90-07-001  | Management & Disposal of Low Level Rad. Waste             | Harvard School of Public Health  | 07/16/90 - 07/20/90                         |
| 06-0099mm  | Epidemiologic Methods for Health Physicists                       | 06/27/90 - 06/27/90 | 044  | 90-07-002  | Advanced Workshop on Nuclear Emer. Planning               | Harvard School of Public Health  | 07/23/90 - 07/27/90                         |
| 06-0099n   | Impact of 10CFR 35  | 06/25/90 - 06/25/90 | 044  | 90-07-003  | Ionizing Radiation Risks: Present & Future                | American Statistical Assn.   | 07/08/90 - 07/12/90                         |
| 06-0099nn  | Nuclear Power Reactor Health Physics                              | 06/28/90 - 06/28/90 | 044  | 90-08-002  | In-Place Filter Testing Workshop                          | Harvard School of Public Health  | 06/11/90 - 06/15/90<br>08/20/90<br>08/24/90 |
| 06-0099o   | High Energy Accelerator Heal Physics                              | 06/25/90 - 06/25/90 | 044  | 90-08-003  | Certification of Biological Safety Cabinets               | Harvard School of Public Health  | 06/11/90 - 06/18/90<br>08/20/90<br>08/27/90 |
| 06-0099oo  | Health Physics for the Broad Scope Medical License                | 06/28/90 - 06/28/90 | 044  | 90-08-004  | Respiratory Prot. & Chemical Prot. Clothing               | Harvard School of Public Health  | 08/13/90 - 08/17/90                         |
| 06-0099p   | Shielding of Medical Linear Treatment Rooms                       | 06/25/90 - 06/25/90 | 044  | 90-08-005  | Laser Hazard Assessment Course                            | USAP School of Aerospace Medicine  | 08/12/90 - 08/17/90                         |
| 06-0099pp  | The Continuing Evolution of Dose Equivalent                       | 06/28/90 - 06/28/90 | 044  | 90-08-006  | 21st DOE/MRC Nuclear Air Cleaning Conference              | USDOE, USNRC, Harvard Air Clean.Lab  | 08/13/90 - 08/16/90                         |
| 06-0099q   | CR-39 Personnel Neutron Dosimetry                                 | 06/25/90 - 06/25/90 | 044  | 90-09-001  | Educational Day on Radon                                  | American Medical Association   | 06/02/90 - 06/02/90                         |
| 06-0099qq  | Nuclear Litigation Issues   | 06/24/90 - 06/24/90 | 044  |            |   |  |   |

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| DESIGNATOR | COURSE TITLE                                 | COURSE SPONSOR                      | DATE PRESENTED  | CECS |
|------------|--|-------------------------------------|---|------|
| 90-09-001  | Health Physics in Radiation Accidents        | Oak Ridge Associated Universities   | 09/17/90 - 09/21/90   | 06#  |
| 90-09-001  | Educational Day on Radon                     | American Medical Association        | 09/22/90 - 09/22/90   | *    |
| 90-09-002  | Educational Day on Radon                     | American Medical Association        | 09/23/90 - 09/23/90   | *    |
| 90-09-002  | Risk Analysis in Environmental & Occ. Health | Harvard School of Public Health     | 09/05/90 - 09/07/90   | *    |
| 90-10-001  | Respiratory Protection At Nuclear Facilities | Radiation Safety Associates, Inc.   | 10/15/90 - 01/19/90   | *    |
| 90-12-001  | Basic Health Physics                         | Nuclear Science Center              | 12/11/89 - 12/15/89<br>05/14/90 - 05/18/90<br>12/01/90 - 12/01/90 | *    |
| 91-01-001  | Radiation Detection & Measurement            | Technical Management Services, Inc. | 02/05/90 - 02/09/90   | *    |
| 91-01-002  | Emergency Preparedness                       | Duke Power Company                  | 01/09/91 - 01/09/91<br>01/31/91 - 01/31/91                        |      |
| 91-01-003  | Laser Hazard Assessment Course               | USAP School of Aerospace Medicine   | 01/28/91 - 02/01/91<br>08/05/91 - 08/05/91                        |      |
| 91-06-001  | Radioactive Materials Shipping Requirements  | General Physics Corporation         | 06/18/91 - 06/18/91<br>12/03/91 - 12/13/91                        |      |
| 91-08-001  | Laser Hazard Assessment Course               | USAP School of Aerospace Medicine   | 08/05/91 - 08/09/91   |      |
| 91-12-001  | Radioactive Materials Shipping Requirements  | General Physics Corporation         | 12/09/91 - 12/13/91   |      |

\* indicates that the application for continuing education credits is still under review

# indicates "new" credits

+ indicates 1 credit per day up to a max. of 3 credits under the old system or 2 credits per half day up to a max. of 12 credits under the new system

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