



# N · E · W · S

## PRESIDENT'S REPORT JANUARY 1991

*John A. Auxier, CHP  
President, AAHP, 1991*

**...an important role of the Academy is to help develop an increasingly positive image of the CHP as the health physics professional.**

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The major effort of the President-Elect during the year has been that of information collection. The goal has been to determine what the needs of the CHP are relative to the AAHP. Because the AAHP is so new, a strong role for the organization has not evolved. Most CHPs to whom I have talked do not have a clear concept of what the Academy is. There is confusion about the ABHP's relationship to the Academy.

At a more fundamental level, I have found that many CHPs do not appreciate the importance, in the marketplace, of their credentialization. After having gone to the effort to obtain the certification, its value can be enhanced for all CHPs. This is accomplished to a large extent by each person who has demonstrated the high level of professionalism required for certification, to use the CHP as part of his/her identification. To those who may feel this to be self aggrandizement, I would point out that medical doctors do not have this reluctance.

Therefore, an important role of the Academy is to help develop an increasingly positive image of the CHP as the health physics professional. It is to the individual CHP's benefit if

regulatory documents accept CHPs as qualified experts without further licensing requirements. The potential for licensing of all health-related specialists in some states looms large. For some CHPs, this could present a major problem of bureaucratic paperwork.

Another role of the AAHP, perhaps the major role, should be that of communication. As a new organization, there is much need to communicate with members of the Academy, the ABHP, the Board of Directors of the HPS, various regulatory agencies, other professional organizations, etc., etc. With that said, the AAHP/ABHP Newsletter [now *CHP News*] is off to a great start; Nancy Daugherty is to be commended for her efforts in producing an excellent first edition.

Finally, the goals for the President this year are to foster: 1) the enhancement of the Certified Health Physicist, 2) the communications process, and 3) a stronger financial base for the Academy. The efforts commenced by President Schiager to increase the Academy's participation in HPS meetings, particularly the Midyear will be continued. ■

## FROM THE CHAIRMAN MAY 1991

*Leroy F. Booth, CHP  
Chairman, ABHP, 1991*

Last December the *HPS Newsletter* published a "Point-Counterpoint" discussion regarding certification versus licensing of health physicists. The "point," submitted by Charles Kelsey, argues for a minimum competency standard for entrance into the field of health physics, and suggested that the ABHP Certification Exam could be better used to test this standard than to identify an advanced level of competence, which some consider elitist.

The "counterpoint," submitted by yours truly, was a rather innocuous discussion of our current practices, with an invitation to readers to "...let us know how you feel." I included this with some apprehension, since I feared it would simply encourage disgruntled individuals to continue to criticize the Board's activities (Do I sound paranoid?). In addition, the proposed move toward licensure would significantly impact the Board's current operations, mission, and perhaps legal standing.

Imagine my relief when we received many responses supporting the existing certification process. In fact, the vast majority of respondees, including non-certified HPs, expressed a strong desire to retain the current certification standards. Most felt the present

standards are entirely appropriate and would oppose any changing or "lowering" of them. It is most gratifying to get this kind of feedback. Equally surprising was the large number of responses. Apparently many health physicists have strong feelings concerning certification, and are willing to voice them in the *Newsletter*.

While most support the current certification structure, many would consider licensing as a method of establishing minimum competency levels and suggest that Part I of the exam might be the appropriate tool for this purpose. Although this seems a reasonable approach, there is little the Board can do at this time, since licensing would normally be a state activity. It is something for us to continue to think about, though. ■

### **AAHP COMMITTEE UPDATES:**

#### CONTINUING EDUCATION

*Frederick J. Borst, CHP,  
Chair*

Get ready for something new at the Midyear meeting in Dearborn! In our continuing efforts to bring you quality professional development opportunities, we are moving to "bridge the gap" between the PEP courses and the Summer School. We are tentatively planning to sponsor two 8-hour professional development classes, worth 16 continuing education credits a piece, on the Saturday preceeding the Midyear. For those of you without your calendars handy, the

date is January 11, 1992. At the current time, it looks as if we will be offering classes on internal dose estimates and external dose estimates, presented by Ken Skrable and George Chabot, respectively. We will probably be restricting the size of the classes in order to maximize interaction. More details will be forthcoming as we approach the Midyear. If you have any suggestions on improving the continuing education process, please contact one of the members of the Committee: Ted Borst, Chair; Jerry Martin; Dave Snellings; Ken Skrable; John Rodgers; or Regis Greenwood. [Editor's Note: See AAHP committees listing later in the *News* for addresses and phone numbers.] ■

#### NOMINATING COMMITTEE

*Mark D. Otis, CHP, Chair*

NOMINATIONS FOR AAHP & ABHP  
COMMITTEE MEMBERS &  
OFFICERS -

The Nominating Committee of the American Academy of Health Physics is always seeking candidates for appointment to positions on the AAHP & ABHP.

All active, certified health physicists are eligible. Those interested in nominating or being a candidate should contact Mark Otis, SAIC, 100 South Park Avenue, P.O. Box 50697, Idaho Falls, Idaho 83405; (208)451-4247 W; (208)524-5897 FAX. ■

PROFESSIONAL  
STANDARDS & ETHICS

*Sydney W. Porter, CHP,  
Chair*

The Professional Standards & Ethics Committee is soliciting comments on the following draft "Code of Ethics." Comments should be submitted to Sid Porter, Chair, in time for consideration by the AAHP Executive Committee at the Annual HPS Meeting in Washington, D.C.

**Draft CODE OF ETHICS  
OF THE  
AMERICAN ACADEMY OF  
HEALTH PHYSICS**

FORWARD

These principles are the standards for ethical conduct for members of the American Academy of Health Physics (AAHP) individually and collectively, for conducting professional activities. Members should recognize this standard as a set of dynamic principles guiding their professional conduct, and as a guideline by which they may determine the propriety of their conduct in relationships with colleagues, with members of other professions, and with the public. This is a living document and, as such, will be reviewed for content and applicability by the Professional Standards and Ethics Committee on a bi-annual basis.

ETHICAL RELATIONS WITH COLLEAGUES, CLIENTS AND OTHERS

1. Within the areas of professional activities, members shall never knowingly mislead anyone on the subject of radiation protection or their professional activities. Members will have due regard for the safety and health of the public and employees who may be affected by the work for which they are responsible, and will not allow personal interests to impact professional judgement or legitimate concerns for health and safety.
2. Members will promote a balanced understanding of radiation effects by the public. Diplomats shall clearly identify as personal opinions and minority viewpoints any statements or recommendations regarding radiation hazards, biological effects or protective actions that are not supported by consensus positions or major scientific or professional organizations. Professional statements made by diplomats shall have sound scientific basis. Sensational and unwarranted statements concerning radiation and radiation effects shall be clarified, as soon as practical. When appropriate, members shall make clear the fact that their statements differ from the consensus of scientific opinion.
3. Members will not attempt to injure, falsely or maliciously, the professional reputation of anyone.

TECHNICAL PROFESSIONALISM

1. Members shall restrict their practice to areas where they have training and experience. Members will only provide Health Physics services in accordance with the provisions of this code and applicable laws, including generally accepted protocols, guidelines, standards and codes. Members will provide professional services in only the areas where they are proficient, licensed, certified, or legally or technically able to perform.
2. Members shall strive to improve their professional knowledge and skills, and shall endeavor to extend the effectiveness of the Health Physics profession by sharing information and experience with others and by contributing to the work of professional associations, schools, and the scientific and Health Physics press.

BUSINESS ETHICS

1. In their relationships with employers, co-workers, clients, governmental agencies and the general public, members shall strive for the highest standard of integrity and fairness.
2. Without the knowledge and consent of the client, members will not accept or offer commissions, allowances, or finder's fees, directly or indirectly, from contractors or other parties dealing with their client.

**DRAFT CODE OF ETHICS,  
CONTINUED**

Members will not accept compensation, financial or otherwise, from more than one interested party for the same service, or for services pertaining to the same work, without the consent of all interested parties.

3. Members will take care that credit for work is given to those to whom the credit is properly due, and will not knowingly take credit for work done by others.

**NOTE:** Credit is hereby given to JoAnne Martin, a very fine Health Physicist, whose American Association of Radon Scientists and Technologists (AARST) committee drafted this proposed Code of Ethics. I am on this AARST committee and have received permission to copy their code. A lawyer has reviewed this code and added comments. Sid Porter■

**LETTERS:**

**SHOULD WE STAND UNITED?**

*Bruce R. Thomadsen,  
Ph.D., CHP  
Madison, WI*

In the November, 1990 Newsletter (Vol. 1, No. 1), Keith Schiager suggested that the

Academy "should encourage and support universally accepted standards and recommendations for radiation protection." President Schiager points out that the Academy has no code of ethics or rules to censure a member presenting personal opinion that conflicts with scientific consensus. "How far," he asks "should we go to assure that opinions presented by a 'certified' [his bold type] health physicist are representative of the profession as a whole?" I find this question distressing. The Academy and the ABHP serve a valuable function in establishing standards by which health physicists may be judged as competent. However, members of the Academy must have academic freedom to express their thoughts and conclusions. That controversy exists in our field indicates the complexities of the issues, and even panels of experts (who often are drawn from supporters of one side of an issue) may be mistaken. Individuals calling out against the conventional wisdom of any time may be charlatans or prophets. The former must be tolerated so as not to silence the latter. President Schiager himself warns of the danger of organizational censure when he states "Too often, it appears that individuals take advantage of positions of authority to impose their personal agenda rather than supporting the scientific consensus positions...". The "concensus" can also be formed by a small number of individuals in positions of authority. Sometimes it takes heretics to reveal these agendas.

There are other organizations to take stands (e.g., HPS, ICRP). How far should the AAHP go to assure certified health physicists only give certified opinions? Not one step. We have an important function to perform. Let's do it, and do it well. ■

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The following letters came in supporting the *CHP News* and offering suggestions for improvement. In fact, we got our new name from this next one.

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*John A. Bauhs, CHP  
St. Paul, MN*

I have just plowed through the November 1990 Newsletter and I want to congratulate you on becoming the Editor and wish you success. I am a CHP from 1985 and still don't understand what the AAHP and ABHP is good for except for the certification. Maybe there is nothing more to understand. I hope the Newsletter can help clarify their purposes. With the cost of continuing certification doubling to \$50 a year I would like to know more. I see names of many people involved in committees, but don't quite get the hang of why.

The "Letters:" section of the Newsletter I liked and look forward to seeing more of. I liked the "Future Credentialization in Health Physics" by Auxier. That letter gave me a little feeling for what the AAHP and ABHP are up to.

Also I wanted to comment about the Newsletter name. You mentioned

t in your letter "From the Editor." I think the "AAHP/ABHP Newsletter" is a clumsy large handle and hard to say. Instead of just complaining, here are three suggestions: "Certified Health Physicist," "CHP News," and "Certified HP News." ■

[Thanks, John. The AAHP Executive Committee thought your suggestions were GREAT! "CHP News" won hands down for a title for our newsletter. Keep those letters coming! Nancy]

*Floyd W. Wilcox, M.S., CRP,  
CHP  
Oceanside, CA*

A logo suggested for the Newsletter masthead is enclosed.

Vol. 1, No. 1 was great. Keep up the good work. ■

*David S. Gooden, Ph.D.,  
J.D., CHP  
Tulsa, OK*

I just read with interest the first issue of the AAHP/ABHP Newsletter. I am a real supporter of newsletters and feel that they provide one of the finest forums for the exchange of professional and scientific information. I know your position as editor of the newsletter will be an exciting one. I wish you great success and great joy serving in this responsible position. I salute you for your willingness to serve. ■

*Gary S. Kephart, CHP  
Clinton, IL*

Thanks for agreeing to edit the ABHP Newsletter; your inaugural issue was impressive. The NRRPT is a case of "a newsletter searching for news" so I'm pleased to hear that you have not encountered this problem yet. If I can assist in any specific way, please consider me willing to help. In particular, if you could use some help translating copy from page to computer fields, I might be able to assist. I will add you to the list of non-member professionals included in the NRRPT News distribution. ■

[Gary's was the first letter that I received on our "inaugural issue." My thanks for this and a subsequent letter from him offering support. The copy of the *NRRPT News* which he sent was inspirational to this neophyte editor. Nancy]

*Robert J. Hoffman, M.S.,  
CHP  
Salt Lake City, UT*

Here is an idea for a masthead for the newsletter. Feel free to use any, all, or none of it. ■

**FROM THE EDITOR:**

*Nancy M. Daugherty, CHP*

Well, whaddayathink of our new masthead? It represents the contributions of several CHPs: **John Bauhs** gave us our short, catchy name; **Keith Schiager**

designed the CHP logo; and Nancy Kirner and her graphics people at Envirosphere Company put it all together in a masthead. The response to our solicitation for logo and masthead suggestions was great. The AAHP Executive Committee received many good ideas. Thanks to all contributors.

The CHP logo selected was favored for it's emphasis on the focus of the AAHP/ABHP (certification) and for its simplicity (It can readily be reproduced as printed material or even jewelry; we're already talking lapel pins.). The *CHP News* title also puts the emphasis on certification and is different enough from the *HPS Newsletter* title to avoid confusion. We think that both the title and the logo will help John Auxier in his campaign to see more widespread use of the CHP identification.

We were very impressed with the letters received responding to our first expanded newsletter. Some of those letters expressed an interest in knowing more about what the objectives and activities of the AAHP are. Many of the AAHP's objectives are realized through the activities of its committees. Consequently the *News* will include more information regarding committee projects and activities in this and future editions. If you want to influence the direction of the AAHP, contribute to a committee!

Please pay special attention to Keith Schiager's announcement of the 1991 Annual HPS Meeting AAHP/ABHP Special Session, "CONSISTENCY AND UNITY IN

RADIATION PROTECTION." Rapid changes are taking place in the area of radiation protection regulations, with many new players or new roles for previous participants. Regulation of radiation dose is no longer under the virtually exclusive domain of the DOE, NRC, and Agreement States.

As an example, radioactive materials are now regulated under the Clean Air Act (CAA), which was significantly amended in 1990. The amended CAA is complex and subject to wide ranges of interpretation; it carries criminal, as well as civil, liability. The EPA has primary jurisdiction for CAA implementation, but many states may ultimately assume primacy. It is quite likely that the enforcement organizations for both the EPA and the states - for this and other environmental radiation regulation - will not be the radiation control organizations which historically have had radiation protection responsibilities. Instead, enforcement will be through air, water, and hazardous materials control organizations. Increasingly, health physicists will be talking to non-HP regulators who may or may not even have heard of the ICRP, NCRP, HPS, or AAHP. These regulators will have tremendous clout in both civil and criminal enforcement.

What, if any, is the role of the AAHP in this new arena of regulation? Come to the Special Session and let's talk! ■

**PLEASE NOTE THAT THE WORK TELEPHONE NUMBER FOR THE CHP NEWS EDITOR HAS CHANGED. IT WILL PROBABLY CHANGE AGAIN LATER THIS SUMMER. IF YOU'RE UNABLE TO REACH HER AT WORK, CALL AT HOME.**

**HIGHLIGHTS OF THE AAHP EXECUTIVE COMMITTEE MEETING, JANUARY 21, 1991:**

- ✓ The Articles of Incorporation for the AAHP have been completed and filed.
- ✓ An *ad hoc* committee was appointed to make recommendations concerning meetings of the Academy beyond the Annual and Midyear meetings of the HPS. Under consideration is some coordination with the NCRP annual meeting (typically held in April). *Ad hoc* committee members include: Les Slaback, Nancy Kirner, and Lee Booth. [CHPs: Please contact a committee member with your thoughts on this idea.]
- ✓ An Associate AAHP certificate (for those having passed Part I of the exam) will be issued for the period of eligibility (7 years). Dues for Associate membership will be \$10/year. The objective of the Associate AAHP membership is to encourage these individuals to complete certification and to participate in AAHP activities.

- ✓ The AAHP budget is squeaking by. WANTED: Suggestions for augmenting AAHP income!!!
- ✓ The ABHP exam panel members are working hard. Unanimous recognition of this was provided by the AAHP Executive Committee.
- ✓ The AAHP Executive Committee also recognized the efforts of Keith Schiager, outgoing AAHP President.
- ✓ The AAHP will be publishing a directory of CHP resumes for distribution to members and other interested parties. An *ad hoc* committee was appointed to develop the final format and propose implementation. Committee members: Paul Rohwer, Chair; George Vargo, Mark Otis. [CHPs: Please contact a committee member with suggestions or comments.]
- ✓ An *ad hoc* committee will be investigating the feasibility of an electronic bulletin board for CHPs. Committee members: Wade Patterson, Chair; Hector Mandel, Howard Dickson. [CHPs: And again, please contact a committee member with suggestions or comments.] ■

**NOTICE!!!**

**1991 ANNUAL HEALTH PHYSICS SOCIETY MEETING  
AAHP/ABHP SPECIAL SESSION - 1991**

**CONSISTENCY AND UNITY IN RADIATION PROTECTION**

Keith J. Schiager, CHP, Moderator  
Past President, American Academy of Health Physics

(Tentative time is 10 - 12 am on Thursday, 25 July)

The three basic principles of radiation protection to which the majority in this profession subscribe are justification, optimization and limitation. Perhaps it is time to add a fourth: unification. In the United States, and to some extent in all democratic countries, we have become inundated with official and quasi-official agencies and organizations promulgating radiation protection guidelines, standards and requirements. The disparity in the positions of some of these organizations divides professionals and confuses non-professionals. As the preeminent organization for defining professionalism in health physics, the American Academy of Health Physics should take a lead role in unifying the principles and practices of radiation protection. Various perspectives on the relationship between guidance criteria and regulations, and on the relative importance of optimization, will be presented by leaders from advisory and regulatory organizations.

Topics and questions to be addressed by the speakers include:

1. What is, or should be, the role of the organization represented by the speaker in setting radiation protection standards?
2. To what extent should an organization with one type of responsibility accept and use the guidance of organizations with other areas of responsibility?
3. What limitations, if any, should be recognized or self-imposed by the organization represented by the speaker?
4. What should be the professional qualifications of the active participants and decision makers in the organization represented by the speaker?
5. When asked for a professional opinion on radiation protection, how should a certified health physicist explain to scientists or the public the differences in positions taken by the advisory and regulatory organizations?
6. What kind of interorganizational coordination could alleviate some differences? Does the AAHP have a role to play in this?

**TENTATIVE AGENDA FOR THE AAHP SPECIAL SESSION**

- 10:00-10:15      **CONCERNS OF HEALTH PHYSICISTS OVER PERCEIVED INCONSISTENCIES IN RADIATION PROTECTION STANDARDS AND REGULATIONS**  
K. J. Schiager, Past President, AAHP, University of Utah
- 10:15-10:30      **THE BASIS FOR ICRP AND NCRP RADIATION PROTECTION STANDARDS**  
C. B. Meinhold, President, National Council on Radiation Protection and Measurements and Member, ICRP
- 10:30-10:45      **THE ROLE OF INDUSTRY CONSENSUS STANDARDS**  
A. N. Tschaeche, Chairman ANSI-N13, Westinghouse Idaho Nuclear Company
- 10:45-11:00      **FEDERAL GUIDANCE IN RADIATION PROTECTION**  
R. J. Guimond, Director, Office of Radiation Programs, U. S. Environmental Protection Agency
- 11:00-11:15      **REQUIREMENTS OF A RADIOACTIVE MATERIALS LICENSING AGENCY**  
D. A. Cool, Branch Chief, Radiation Protection and Health Effects Branch, Division of Regulatory Applications, U. S. Nuclear Regulatory Commission
- 11:15-11:30      **UNIFYING REGULATIONS WITHIN A STATE AND BETWEEN STATES**  
M. H. Mobley, Chairman, Conference of Radiation Control Program Directors; Director, Tennessee Division of Radiological Health
- 11:30-12:00      Panel discussion and questions from the audience ■

**\$MONEY, ANYONE? \$**

The AAHP Executive Committee is soliciting (read "begging for") income-producing ideas to help finance AAHP projects. It is hoped that many of the ideas could combine a valued service to CHPs, while allowing a profit to the Academy. Examples of ideas already being considered or implemented include:

- \$ PEP-type continuing education courses for recertification credits;
- \$ A CHP directory, with resumes;
- \$ An electronic bulletin board for CHPs;
- \$ An auction of HP memorabilia, and/or donated equipment and services.

Examples (many borrowed from the AIHF) of ideas not so closely tied to health physics itself:

- \$ A CHP-sponsored golf (tennis, racketball, skateboarding, bingo) classic at the Annual HPS meeting. The AIHF sponsors a golf classic with a registration fee of \$125. Speak up, you sports enthusiasts!
- \$ A casino night, complete with play money. An admission fee provides the initial stake, additional play money can be purchased if you're not so lucky. ■

All serious suggestions will receive serious consideration. Contact the AAHP Finance Committee.



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1991

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On the following pages is a list of the 1988 and 1989 Continuing Education Courses that were approved since the May 1990 issue of the Newsletter and a complete list of all 1990 and 1991 Courses.

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS	DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
88- -818	HP Aspects of Emergency Preparedness	Great Lakes Chapter, NPS	03/30/88 - 05/30/88	044	88- -147	Radon Measuring Course	The Nucleus	01/21/88 - 01/22/88	08
88- -128	Criticality Alarm Systems Workshop	USDOE and ORNL	09/24/88 - 09/27/88	4	89- -891h	Annual Mtg. Conference of Radiation Control Program Directors (CRCPD)	Conf. of Rad. Cont. Program Direct.	01/01/81 - 01/01/81	*
88- -129	Certification Review for Health Physicists	Reynolds Electrical & Engineering	01/04/88 - 01/09/88	8	89- -896	12th Annual Conf. of the Canadian Radiation Protection Assoc.	Canadian Radiation Protection Assoc	04/30/89 - 05/03/89	12h
88- -130	7th Annual Mtg. of the SSHA	SSHA	08/28/88 - 08/28/88	3	89- -893	Below Regulatory Concern Concepts	Society & Association Services Corp	10/03/89 - 10/05/89	3h
88- -131	SSHA Refresher #A02	SSHA	11/27/88 - 11/27/88	1	89- -899	Biological Protection Program Assessment	Technical Management Services, Inc.	11/13/89 - 11/15/89	18h
88- -132	SSHA Refresher #317	SSHA	11/27/88 - 11/27/88	3/8	89- -898	Society for Risk Analysis Annual Meeting	Society for Risk Analysis	10/15/89 - 11/01/89	12h
88- -133	SSHA Refresher #328	SSHA	11/27/88 - 11/27/88	3/4	89- -891	Critical Issues--Reserve Strategies	Electromagnetic Energy Policy Alliance	10/17/89 - 10/19/89	16h
88- -134	SSHA Refresher #307	SSHA	11/27/88 - 11/27/88	3/8	89- -892	Seminar on Protection of the Fetus	Illinois Dept. of Nuclear Safety	09/26/89 - 09/26/89	2h
88- -135	Imaging Living Brain Chemistry: Princ. & Prac.	Johns Hopkins Medical Inst.	03/17/88 - 05/18/88	0	89- -893	Low Level Radioactive Waste Generators	Illinois Dept. of Nuclear Safety	12/12/89 - 12/17/89	4h
88- -136	Savannah River Chapter Meeting	Savannah River Chapter, NPS	10/11/88 - 10/11/88	1	89- -894	1-day And Radioactive Material Users Conf.	Illinois Dept. of Nuclear Safety	12/13/89 - 12/13/89	4h
88- -137	Third Seminar on Chemical Decontamination of Boiling Water Reactors	Not Indicated	12/06/88 - 12/08/88	2.5	89- -895	Winter 1989 NPS Meeting	American Nuclear Society	10/25/89 - 10/28/89	6h
88- -138	Radiation Control Program Directors Regional Meeting	Conference of Radiation Control Dir	02/10/88 - 02/10/88	*	89- -896	Great Lakes Chapter NPS Meeting	Great Lakes Chapter, NPS	10/27/89 - 10/27/89	2h
88- -138a	Symposium on Neutron Dosimetry & Radiobiology	Armed Forces Radiobiology Research	11/08/88 - 11/09/88	16h	89- -897	28th Hanford Symposium on Health & Environ.	USDOE, Battelle	10/16/89 - 10/19/89	12h
88- -139	1988 USAF Health Physics Course	USAF	04/04/88 - 04/07/88	32h	89- -898	SIChRAD Fall Conference	SIChRAD	10/24/89 - 10/24/89	2h
88- -140	Whole Body Counting Data Evaluation	Oyster Creek Nuclear Gen. Station	01/10/88 - 01/21/88	32h	89- -899	Neutron Personnel Dosimetry	ORAU	11/14/89 - 11/16/89	32h
88- -141	Internal Radiation Dosimetry	Skrable Enterprises/Commonwealth Ed	01/15/88 - 01/19/88	32h	89- -100	New Medical Initiatives Workshop	USNRC	09/15/89 - 09/15/89	8h
88- -142	Handling of Radiation Accidents by Emergency Personnel	FEAC/US	10/31/88 - 11/01/88	16h	89- -116	Air Sampling	Technical Management Services, Inc.	10/19/89 - 10/20/89	16h
88- -143	Westinghouse Severe Accident Overview	USNRC	04/04/88 - 04/05/88	08h	89- -118	Certification Review Course for Health Physic	Skrable Enterprises, Inc.	03/19/89 - 03/24/89	32h
88- -144	12th Annual Radiation Oncology Clinical Research Seminar	Univ. of Florida College of Med.	04/20/88 - 04/30/88	12h	89- -120	Handling of Radiation Accidents by Emergency	Oak Ridge Associated Universities	09/26/89 - 09/29/89	32h
88- -145	Medical Physics Review Course, Diagnostic Imaging	AAPM	08/06/88 - 08/07/88	12h	89- -121	12th Biennial Campus ESD Conference	Campus Radiation Safety Officers	07/11/89 - 07/20/89	12h
88- -146	High Energy Linac Maintenance Part I	Varian Associates, Inc.	07/11/88 - 07/15/88	16h	89- -128b	Special Topics Workshop	USNRC	11/20/89 - 12/01/89	16h

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS	DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
89-130	Low-Level Waste Disposal Regulatory Meeting	USNRC	11/15/89 - 11/16/89	124	89-151	VA Chapter American College of Radiology	VA Chapter American College Radiol.	11/11/89 - 11/11/89	0
89-131	Offsite Emergency Radiological Monitoring Class-Emergency Phase 5 Intermediate Phase	Porter Consultants	10/13/89 - 10/14/89 10/17/89 - 10/18/89 10/19/89 - 10/20/89 10/21/89 - 10/22/89	240	89-152	Title III, SAHA & OSHA/Hazard Communication	HCSU	05/25/89 - 05/25/89	81
89-132a	Chernobyl	H.E. New York Chapter, HPS	10/10/89 - 10/11/89 10/24/89 - 10/24/89	24	89-156	Risk Estimates - 1989	B/U Chapter Health Physics Society	09/21/89 - 09/21/89	24
89-133	1st Int'l Conf. on Radioactive Nuclear Beams	USDOE	10/16/89 - 10/18/89	181	89-157	New Air Standards for Radionuclides	B/U Chapter Health Physics Society	11/16/89 - 11/16/89	24
89-134	4th Annual Meeting Am. Assoc. Aerosol Researc	American Assoc. for Aerosol Researc	10/10/89 - 10/12/89	34	89-158	Safety System Function Inspections	American Nuclear Society Michigan	12/07/89 - 12/07/89	24
89-135	Workshop on Management of Radioactivity Contaminated Sites	USEPA	11/01/89 - 11/01/89	161	89-159	Internal Radiation Dosimetry	Skrable Enterprises, Inc.	06/11/89 - 06/16/89	324
89-136	DOE Defense Programs Restoration	USDOE	10/29/89 - 10/31/89	161	89-160	Fundamentals of Radiological Health Physics	Skrable Enterprises, Inc.	06/11/89 - 06/16/89	324
89-137	American Nuclear Society Winter Meeting	American Nuclear Society	11/15/89 - 11/19/89	124	89-161	Advanced Radiological Health Physics	Skrable Enterprises, Inc.	06/10/89 - 06/23/89	324
89-138	IEEE 1989 Nuclear Science Symposium	Lawrence Livermore Laboratory	10/25/89 - 10/27/89	124	89-162	Int'l Workshop in New Developments in Occup. Dose Control & ALARA Imp. at HPP & Sim. Fac.	USNRC & USDOE (ref. 89-149)	09/18/89 - 09/21/89	324
89-141	Radwaste Packaging & Shipping	Portland General Electric	10/17/89 - 10/19/89	324	89-163	Industrial Hygiene Air Waste Management Activities in New Mexico	RR Chapter Air & Waste Mgmt. Assn.	11/01/89 - 11/07/89	81
89-142	Internal Dose Assessment	Technical Management Services, Inc.	12/04/89 - 12/08/89	324	89-164	Radioactive Materials Shipping Requirements	General Physics Corporation	10/30/89 - 11/03/89	324
89-143	Annual All-States Meeting	USNRC	10/11/89 - 10/13/89	181	89-165	OSH Damage & Repair Studies in Rad. Sciences	University of Pittsburgh	12/11/89 - 12/15/89 06/11/90 - 06/15/90 12/16/90 - 12/18/90 11/29/89 - 11/29/89	31
89-143a	ICRP Oxford Meeting	ICRP	10/02/89 - 10/07/89	+	89-166	26th EEL HP Committee Meeting	EEL	10/02/89 - 10/04/89	124
89-144	Basic Health Physics	Nuclear Science Center	12/11/89 - 12/15/89 05/14/90 - 05/18/90 12/01/90 - 12/01/90	324	89-167	th Annual Mtg. of the SNRI	SNRI	02/25/89 - 03/01/89	124
89-145	Fundamentals of Radiological Protection & Atchek Effects	FEHA	04/08/89 - 04/08/89 08/06/89 - 08/06/89	164	89-168	8th Annual Mtg. of the SRFI	SRFI	08/12/89 - 08/18/89	124
89-146	Technical Conference (ref. 89-162)	Brookhaven National Laboratory	09/10/89 - 09/22/89	324	89-169	BSHA Refresher 1319	BSHA	11/27/89 - 11/27/89	24
89-147	Autumn Chapter Meeting	Cascade Chapter Health Physics Soc.	10/27/89 - 10/27/89	24	89-170	BSHA Refresher 1217	BSHA	11/27/89 - 11/27/89	31
89-148	Health Physics Technology	USNRC Technical Training Center	12/04/89 - 12/15/90	324	89-171	Workshop-Effects of Extremely Low Frequency Electromagnetic Radiation	National Academy of Sciences	03/14/89 - 03/14/89	81
89-149	Radiation Protection Directors' Meeting	HRC Region III Utilities	11/28/89 - 11/28/89	41	89-172	Image Management and Communication	IRAC	06/04/89 - 06/08/89	124
89-150	Implementation of the New Part 20	Alexander Corporation	07/24/89 - 07/28/89 09/11/89 - 09/15/89 09/28/90 - 09/30/89 11/27/89 - 12/01/89	324	89-173	Great Lakes Chapter Health Physics Society	Great Lakes Chapter HPS	12/18/89 - 12/18/89	24
					89-174	VA Chapter HPS Fall 1989 Wintergreen Meeting	VA Chapter HPS	11/03/89 - 11/05/89	41

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
89- -175	B/H Chapter HPS Chapter Meeting	B/H Chapter HPS	01/25/89 - 01/25/89	24
89- -176	Technical Meeting of the Western NY Chapter	Western NY Chapter HPS	03/31/89 - 03/31/89	024
89- -177	Savannah River Chapter Meeting	Savannah River Chapter, HPS	01/26/89 - 01/26/89	24
89- -178	Savannah River Chapter Meeting	Savannah River Chapter, HPS	09/27/89 - 09/27/89	24
89- -178a	Respiratory Protection At Nuclear Facilities	Radiation Safety Associates, Inc.	04/10/89 - 04/14/89	324
89- -180	Joint Symposium on Dosimetry of Administered Radionuclides	Amer. Col. Nuc. Phys./Soc. Nuc. Med.	04/19/89 - 04/23/89	044
89- -181	Women and Radiation	New England Chapter, HPS	09/21/89 - 09/22/89	84
89- -182	1989 Health Physics Certification Review Crs.	Virginia Chapter, HPS	02/07/89 - 07/14/89	324
89- -183	Meeting of Region III Radiation Protection Directors	RPA	11/20/89 - 11/20/89	44
89- -184	Emergency Response, Radiation Control Dir.	Conference of Radiation Control Dir.	03/20/89 - 03/22/89	104
89- -185	Kodak Processor and Image Analysis Seminar	Eastman Kodak Company	06/01/89 - 08/02/89	84
89- -186	31st Annual Meeting of American Society for Therapeutic Radiology & Oncology	ASTRO	10/01/89 - 10/06/89	124
89- -187	1st Consensus Development Conference on the Treatment of Radiation Injuries	Armed Forces Radiobiology Research	05/10/89 - 05/13/89	164
89- -188	Rocky Mountain Chapter Meeting	Rocky Mountain Chapter	10/10/89 - 10/10/89	24
89- -189	Rocky Mountain Chapter Meeting	Rocky Mountain Chapter	12/13/89 - 12/13/89	24
89- -190	7th Annual Fall Conference-CA RA Material Management Forum	CAI RAO, FORUM	11/19/89 - 11/20/89	084
89- -191	1989 Air Force Health Physics Symposium	USAF School of Aerospace Medicine	05/08/89 - 05/11/89	124
89- -192	Society of Magnetic Resonance in Medicine, Inc 1989 Annual Meeting	SMRM	00/12/89 - 00/18/89	124
89- -193	BiWinter Oncology Conference	Los Angeles Radiological Society	01/27/89 - 01/29/89	084
89- -194	0-E/LASE '86 through '89	Soc. of Photo-Optical Instr. Engr.	01/11/87 - 01/17/87	044
89- -195	AAPN Summer School - Expanding the Role of Medical Physics in Nuclear Medicine	AAPN	01/10/88 - 01/15/88	044

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
89- -196	FEMA - State Radiological Defense Officer Management Course	FEMA	02/02/89 - 02/10/89	164
90-01-003	Radioactive Sample Analysis	Technical Management Services, Inc.	01/22/90 - 01/26/90	164
90-01-004	Emergency Preparedness	Duke Power Company	01/10/90 - 01/10/90	44
90-01-005	Certification Examination Prep Course	Baltimore Washington Chapter	01/01/90 - 06/01/90	324
90-01-006	H-312: Internal Dosimetry & Whole Body Count.	USARC Technical Training Center	01/22/90 - 01/26/90	324
90-01-007	Laser Hazard Assessment Course	USAF School of Aerospace Medicine	01/00/90 - 01/12/90	164
90-01-008	Technical Staff 3 Mgrs. Training Program	Boston Edison Company	08/12/90 - 08/17/90	164
90-01-009	Decontamination & Decommissioning Workshop	ASTR E10-03	01/22/90 - 01/25/90	104
90-01-011	Winter Chapter Meeting	Cascade Chapter HPS	01/19/90 - 01/19/90	24
90-01-012	Advanced Health Physics	University of Idaho	01/16/90 - 05/01/90	164
90-01-013	Current Respiratory Protection Issues	Respirator Support Services	01/15/90 - 01/15/90	324
90-01-014	Joint Meeting of HPS, AMS, AAPN	HPS, AMS, AAPN	01/16/90 - 01/17/90	024
90-01-015	Cascade Chapter HPS Winter Meeting	Cascade Chapter, HPS	01/19/90 - 01/19/90	024
90-01-016	AMS Section Meeting	American Nuclear Society	03/15/90 - 03/15/90	24
90-01-017	ABRP Certification Examination Review Course	Illinois Dept. of Nuclear Safety	01/25/90 - 06/12/90	324
90-01-018	Nuclear Detection in Radiation Protection	Penn State University	01/08/90 - 04/30/90	164
90-01-020	Health & Safety Training for Hazardous Waste Site Work	John Mathes & Associates, Inc.	01/22/90 - 01/24/90	164
90-01-021	Subcommittee on Dose Assessment	USDOE	01/27/90 - 01/25/90	124
90-01-022	Implementation of the New Part 20	Alexander Corporation	01/22/90 - 01/26/90	324
90-01-023	Radioactive Material Transportation Emergency Response Orientation	USDOE	01/23/90 - 01/23/90	164
90-01-024	Basic Workshop in Radioactive Material Trans.	USDOE	01/25/90 - 01/25/90	164

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
90-02-014	Waste Management '90 - Working Towards a Clear Environment	University of Arizona, ARS, DOE	02/25/90 - 03/01/90	121
90-02-015	DOE'S DOE Contractors Worker's Safety & Health Conference	US DOE	02/26/90 - 02/28/90	121
90-02-016	Health Physics Aspects of the Shippingport Reactor Decommissioning	New England Chapter, NPS	02/28/90 - 02/28/90	21
90-02-017	Radiological Protection Managers Workshop	INPO	02/05/90 - 02/07/90	001
90-03-001	Radon in buildings	Harvard School of Public Health	02/01/90 - 03/02/90	211
90-03-002	32nd Navy Occupational Health & Preventive Medicine Workshop	Navy Environmental Health Center	11/19/90 - 11/20/90	121
90-03-003	Managing Hazardous Materials Emergencies in Biomedical Research Facilities	National Institutes of Health	03/24/90 - 03/29/90	121
90-03-004	Certification Review for Health Physicists	Skrable Enterprises, Inc.	03/22/90 - 03/23/90	161
90-03-005	HP Data Management with Personal Computers	Technical Management Services, Inc.	03/18/90 - 03/23/90	321
90-03-006	Great Lakes Chapter Spring Symposium	Great Lakes Chapter NPS	03/22/90 - 03/22/90	011
90-03-007	Fundamentals of Internal Dosimetry	Washington State Univ./Tri-Cities	03/12/90 - 03/16/90	321
90-03-008	Principles & Applications of Thermoluminescence	Vicocon, Inc.	03/06/90 - 03/08/90	161
90-03-009	Regulatory Aspects of the Hot Particle Issue	New England Chapter, NPS	03/27/90 - 03/27/90	61
90-03-010	Educational Day on Radon	American Medical Association	03/24/90 - 03/24/90	41
90-03-011	Social Issues Affecting the Siting & Operation of Low-Level Radioactive Waste Disposal Facility	NY State Energy Res. & Dev. Author.	03/19/90 - 03/19/90	31
90-03-012	3rd Annual Hazardous Waste Management Conference & Exhibition	USEPA, NY Envir. Imp. Div., etc.	03/12/90 - 03/15/90	101
90-03-013	Field Trip to el Elec. Power Coordination	American Nuclear Society	03/29/90 - 03/29/90	21
90-03-014	Workshop on Personnel Safety Interlocks	Continuous Electron Beam Ass. Fac.	03/29/90 - 03/30/90	21
90-03-015	Implementation of the New Part 20	Alexander Corporation	03/08/90 - 03/09/90	371
90-03-016	Implementation of the New Part 20	Alexander Corporation	03/05/90 - 03/07/90	321
90-03-018	Internal Dosimetry for Fixed Nuclear Facility	Oak Ridge Associated Universities	03/17/90 - 03/16/90	321
90-01-025a	Principles of Radiation Physics Presented Periodically throughout 1990 & 1991	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	321
90-01-025b	Medical Radiation Instrumentation Presented Periodically in 1990 & 1991	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	321
90-01-025c	Medical Radiation Protection Presented Periodically in 1990 & 1991	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	321
90-01-025d	Radiopharmaceuticals and Chemistry Presented Periodically in 1990 & 1991	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	321
90-01-025e	Protection Against Biohazards in a Medical Imaging Environment (Pres. per. in 1990 & 1991)	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	161
90-01-025f	Radiation Safety and Regulatory Compliance Presented Periodically in 1990 & 1991	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	161
90-01-025g	Technical Aspects of Nuclear Cardiology Presented Periodically in 1990 & 1991	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	161
90-01-025h	Devel. & Implementation of Nuclear Cardiology Presented Periodically in 1990 & 1991	Inst. for Nuclear Medical Education	01/01/90 - 01/01/90	161
90-02-001	DOE and DOE Contractors Safety & Health Conf.	USDOE	02/26/90 - 02/28/90	161
90-02-001a	Radiation Detection & Measurement	Technical Management Services, Inc.	02/05/90 - 02/09/90	321
90-02-002	Meeting the Challenges of the '90s in Radiation Protection	INPO	02/05/90 - 02/07/90	61
90-02-004	Overview of the NRC's Revised 10CFR Part 20	New Jersey Chapter NPS	02/07/90 - 02/07/90	021
90-02-006	Respirator Fit Testing	Respirator Support Services	02/08/90 - 02/09/90	321
90-02-007	DOE'S DOE Contractors Worker's Safety & Health Compliance	US Department of Energy	02/26/90 - 02/28/90	161
90-02-008	American Board of Medicine's Ad Hoc Committee on Radiologic Technologists	American Board of Medicine	02/23/90 - 02/23/90	0
90-02-009	Recent Estimates of Cancer Risk	San Onofre Nuclear Generating Sta.	02/15/90 - 02/15/90	41
90-02-010	Louisiana Nuclear Society	LA Chapter American Nuclear Society	02/15/90 - 02/15/90	021
90-02-011	Beneficial Use of Municipal & Indus. Sludge	University of Wisconsin - Milwaukee	02/15/90 - 02/16/90	131
90-02-012	Beta Dosimetry Workshop for Phil. Elec. Co.	Porter Consultants, Inc.	02/15/90 - 02/16/90	281
90-02-013	Radon Hazards and Measurements Workshop	Porter Consultants, Inc.	02/15/90 - 02/16/90	321

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS	DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
90-03-019	Rocky Mountain Chapter Meeting	Rocky Mountain Chapter	03/21/90 - 03/21/90	24	90-04-019	Advanced Workshop in Radioactive Material Transportation	USOEE	11/13/89 - 11/13/89	324
90-03-020	Understanding Discrete Radioactive Particles	So. California Edison Co.	03/19/90 - 03/20/90		90-04-020	ABRP Certification Preparation Course	East TN Chapter HPS/DRAU	04/09/90 - 04/13/90 06/25/90 - 06/25/90 08/06/90 - 08/10/90 08/11/90 - 08/11/90	324
90-03-021	Methods for Reviewing SARPs & Performing Confinement Analysis	U.S. DOE	03/19/90 - 03/30/90	324	90-04-021	Fundamentals Course for Radiological Officers	Scienco, Inc.	04/24/90 - 04/27/90	32
90-04-001	Spring Dale Trout Symposium	Cascade Chapter HPS	04/13/90 - 04/13/90	024	90-04-022	FEMA - National Radiological Defense Workshop	FEMA	04/02/90 - 04/06/90	16
90-04-002	27th Meeting of the Health Physics Committee	Edison Electric Institute	04/01/90 - 04/04/90	124	90-05-001	Radiation Protection Instrumentation	Harvard School of Public Health	05/07/90 - 05/11/90	374
90-04-003	Annual Conference - CAL RAD	CALRAD Materials Management Forum	04/29/90 - 04/30/90	04	90-05-003	Respiratory Protection for all Workplaces	Respirator Support Services	05/21/90 - 05/24/90	324
90-04-004	Respiratory Protection at Nuclear Facilities	Radiation Safety Associates, Inc.	04/01/90 - 04/01/90 04/01/90 - 04/01/90 04/23/90 - 04/23/90 10/15/90 - 10/15/90	04 04 04 324	90-05-004	Educational Day on Radon	American Medical Association	08/14/90 - 08/14/90 10/09/90 - 10/12/90 11/26/90 - 11/29/90 05/19/90 - 05/19/90	41
90-04-005	Current Topics in Medical Physics	RAMPs	04/20/90 - 04/20/90	44	90-05-005	Hot Particle Control Training	Technical Management Services, Inc.	05/09/90 - 05/10/90	164
90-04-006	Educational Day on Radon	American Medical Association	04/20/90 - 04/20/90	44	90-05-006	Contamination Control	Technical Management Services, Inc.	05/07/90 - 05/08/90	164
90-04-007	Engineering Economics	Philadelphia Electric Co.	04/11/90 - 06/24/90	0	90-05-007	Preparation for Health Physics Inspections Course	F.C. Belvoir R & E	05/07/90 - 05/11/90	164
90-04-008	Management Problems of the Technical Person in a Leadership Role	Fred Pryor Seminars	04/18/90 - 04/18/90	0	90-05-008	New England Chapter Meeting, HPS	New England Chapter, HPS	05/24/90 - 05/24/90	44
90-04-009	Risk Perception	Ill State Energy Res. & Dev. Author.	04/26/90 - 04/26/90	24	90-05-009	Conference on Community Health Study for a Low Level Radioactive Waste Disposal Site	New York State Health Dept.	05/11/90 - 05/12/90	64
90-04-010	Spring Chapter Meeting	Cascade Chapter, HPS	04/13/90 - 04/13/90	24	90-05-010	PECO Emergency Medical Assistance Plan (EMAP) Train the Trainers	Philadelphia Electric Co.	05/07/90 - 05/08/90 08/01/90 - 08/01/90 12/01/90 - 12/01/90	164
90-04-011	Respiratory Protection for the Nuclear Indust	Dorell Bevis Assoc./Radiation Safet	04/09/90 - 04/13/90	164	90-05-011	S.E. Regional HPS Annual Meeting	S.E. Chapter, HPS	05/03/90 - 05/05/90	64
90-04-012	Advances in Magnetic Resonance Imaging	University of South Florida College	04/11/90 - 04/14/90	84	90-05-012	Implementation of the New Part 20	Alexander Corporation	01/22/90 - 01/26/90	324
90-04-013	Int'l High-Level Radioactive Waste Management Conference	American Society of Civil Engineers	04/08/90 - 04/12/90	124	90-05-013	7th Symposium on Radiation Measurements & Applications	University of Michigan	05/21/90 - 05/24/90	124
90-04-014	Implementation of the New Part 20	Alexander Corporation	02/22/90 - 04/28/90	324	90-05-014	Refueling Floor Activities	Philadelphia Electric Company	05/21/90 - 05/24/90	00
90-04-015	Radiopharmaceutical Internal Dose Calculation Techniques	Oak Ridge Associated Universities	04/30/90 - 05/02/90	164	90-05-015	Indoor Air Quality and Radon	American Industrial Hygiene Assn.	05/13/90 - 05/13/90	001
90-04-016	Seminar on the New Recommendation of the Int'l Comm. on Radiological Protection	ICRP	04/05/90 - 04/06/90	001	90-05-016	1990 Air Force Health Physics Symposium	USAF School of Aerospace Medicine	05/07/90 - 05/10/90	174
90-04-017	Statistics of Human Exposure to Ionizing Radiation	Natl'l Radiological Protection Board	04/02/90 - 04/04/90	124	90-05-017	International Incineration Conferences	University of California-Irvine	05/16/90 - 05/18/90 05/03/89 - 05/05/89 05/04/88 - 05/06/88	104
90-04-018	Rocky Mountain Chapter Meeting	Rocky Mountain Chapter	04/16/90 - 04/19/90	044	90-05-017a	Incineration Basics Course	University of California-Irvine	05/14/90 - 05/15/90	044

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
90-06-014e	Decommissioning of Nuclear Facilities	Health Physics Society	06/24/90 - 06/28/90	21
90-06-014f	Overview of the NRC's Revised 10CFR Part 20	Health Physics Society	06/24/90 - 06/28/90	21
90-06-014g	U. S. NRC's Policy Statement on ORC	Health Physics Society	06/24/90 - 06/28/90	21
90-06-015	Radiation Detection & Measurement	Technical Management Services, Inc.	06/18/90 - 06/22/90	321
90-06-016	American College of Medical Physics	ACMP	06/07/90 - 06/10/90	21
90-06-017	Briefing on Air-V Report	USNRC	06/29/90 - 06/29/90	031
90-06-018	11th Annual Meeting CERP	Canadian Radiation Protection Assoc	06/12/90 - 06/14/90	121
90-06-019	Panasonic 5th Annual TLO Int'l. Symposium	Panasonic	06/10/90 - 06/22/90	021
90-06-020	Patient Radiation Doses in Diagnostic Radiology	Manitoba Cancer Treatment & Res	06/11/90 - 06/11/90	31
90-07-001	Management & Disposal of Low Level Rad. Waste	Harvard School of Public Health	07/16/90 - 07/20/90	321
90-07-002	Advanced Workshop on Nuclear Emer. Planning	Harvard School of Public Health	07/23/90 - 07/27/90	321
90-07-003	Ionizing Radiation Risks: Present & Future	American Statistical Assn.	07/08/90 - 07/12/90	121
90-07-004	Inspection Procedures Course	USNRC	07/09/90 - 07/13/90	00
90-07-004a	Non-Ionizing Radiations: Health Physics and Radiation Protection	Massachusetts Institute of Tech.	07/01/90 - 07/01/90 07/01/91 - 07/01/91 07/01/92 - 07/01/92	321
90-07-005	Third International Workshop on Respiratory Tract Dosimetry	Inhalation Toxicology Res. Inst.	07/31/90 - 07/02/90	001
90-07-006	Communication of Risk to Nontechnical Personnel & the General Public	USCPA	07/26/90 - 07/26/90	041
90-07-007	Prevention of Significant Safety-Related Events in the Operation of Nucel. Facilities	DOE/ANL	07/31/90 - 08/01/90	321
90-07-008	Applied Gamma Spectroscopy	Technical Management Services, Inc.	07/16/90 - 07/20/90	321
90-07-009	The Physics of Clinical Radiography	American College of Radiology	07/26/90 - 07/27/90	041
90-07-010	Internal Dosimetry: ICRP Public. 2, 26 & 30	Porter Consultants, Inc.	07/25/90 - 07/26/90	321
90-07-011	Air Sampling, Bioassay and Whole Body Counting Workshop	Porter Consultants, Inc.	07/31/90 - 08/01/90	321
90-05-017b	Advanced Incineration Labs. and Waste Incin.	University of California-Irvine	05/15/90 - 05/15/90	041
90-05-018	FD Class Neutron Computer Training Course	Siemens Medical Laboratories	05/21/90 - 05/25/90	00
90-05-019	RPA Workshop	Nuclear Regulatory Commission	05/22/90 - 05/24/90	161
90-05-020	CEC Symposium on Methods & Codes for Assess. the Off-Site Consequences of Nucel. Accidents	Commission of the European Comm.	05/07/90 - 05/11/90	121
90-05-021	Workshop on Meteorological Measurements	Meteorological Standards Institute	05/30/90 - 05/31/90	8
90-06-001	In-Place Filter Testing Workshop.	Harvard School of Public Health	06/11/90 - 06/15/90 08/20/90 - 08/24/90	161
90-06-002	Certification of Biological Safety Cabinets	Harvard School of Public Health	06/11/90 - 06/18/90 08/20/90 - 08/27/90	161
90-06-003	Environmental Radiation Surveillance	Harvard School of Public Health	06/11/90 - 06/15/90	321
90-06-004	Planning for Nuclear Emergencies	Harvard School of Public Health	06/10/90 - 06/22/90	321
90-06-005	Internal Radiation Dosimetry	Skrable Enterprises, Inc.	06/04/90 - 06/09/90	321
90-06-006	Fundamentals of Radiological Health Physics	Skrable Enterprises, Inc.	06/11/89 - 06/16/89	321
90-06-007	Advanced Radiological Health Physics	Skrable Enterprises, Inc.	06/10/90 - 06/16/90	321
90-06-011	Educational Day on Radon	American Medical Association	06/02/90 - 06/02/90	41
90-06-012	AECB Inspector Training Seminar	AECB	06/23/90 - 06/28/90	00
90-06-013	Sample Collection and Analysis Course	US DOE	06/04/90 - 06/08/90	321
90-06-014	Continuing Education Lecturers	Health Physics Society	06/24/90 - 06/28/90	21
90-06-014a	Emergency Planning for Fuel Cycle Facilities	Health Physics Society	06/24/90 - 06/28/90	21
90-06-014b	Health Physics Program Assessment	Health Physics Society	06/24/90 - 06/28/90	21
90-06-014c	Managing Heat Stress Problems	Health Physics Society	06/24/90 - 06/28/90	21
90-06-014d	NRC and DOT Conformity to IAEA Safety Series 6 Standards	Health Physics Society	06/24/90 - 06/28/90	21



DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
90-07-012	Nuclear Criticality Safety Short Course	University of New Mexico	07/16/90 - 07/20/90	324
90-07-013	Environmental Regulation Course	Executive Enterprises, Inc.	07/16/90 - 07/18/90	161
90-07-014	Advanced Health Physics	Skrable Enterprises/Commonwealth Ed	07/30/90 - 08/06/90	324
90-07-015	Workshop on DOE Occurrence Reporting	DOE	07/19/90 - 07/19/90 07/20/90 - 07/21/90 07/22/90 - 07/23/90 08/16/90 - 08/16/90	0
90-08-004	Respiratory Prot. & Chemical Prot. Clothing Clothing	Harvard School of Public Health	08/13/90 - 08/17/90	161
90-08-005	Laser Hazard Assessment Course	USAF School of Aerospace Medicine	08/17/90 - 08/17/90	161
90-08-006a	21st DOE/HRC Nuclear Air Cleaning Conference	USDOE, USNRC, Harvard Air Clean. Lab	08/13/90 - 08/16/90	124
90-08-007	Depleted Uranium Emittions Radiation Safety Course	U.S. Army Fort Belvoir	08/06/90 - 08/10/90	161
90-08-008	Nuclear Criticality Safety Workshop	Univ. of New Mexico	08/07/90 - 08/09/90	324
90-08-009	Site V Report and the ICRP Statement of New Dose Limits	Nuclear Regulatory Commission	08/01/90 - 08/01/90	041
90-08-010	Epidemiology and Health Policy: The Problem of Low-Dose Radiation	New York State Dept. of Health	08/02/90 - 08/02/90	041
90-08-011	GammaSpectroscopy Theory and Current Practice	Porter Consultants, Inc.	07/12/89 - 07/13/89 08/06/90 - 08/07/90	324
90-08-012	Texas Conf. on the Regulation of Radiation	So. Texas Chapter NPS	08/30/90 - 08/31/90	081
90-08-013	Radiation Litigation and RP Practices	PA. Power & Light Co.	08/27/90 - 08/28/90	124
90-08-014	Routine & Emergency Plant Effluent Sampling Analysis & Interpretation	Philadelphia Electric Company	08/15/90 - 08/16/90	161
90-08-015	Region III Radiation Protection Directors Mtg	Clinton Power Station	08/17/90 - 08/17/90	41
90-08-016	Perception of Risks from Low Levels of Rad. and Accuracy of Radiation Measurements	Clinton Nuclear Power Station	08/18/90 - 08/18/90	41
90-08-017	Briefing on Development of Radiation Protection Standards	US NRC	08/01/90 - 08/01/90	61
90-08-018	Air Sampling for Radioactive Materials	Oak Ridge Associated Universities	08/27/90 - 08/31/90	161
90-08-019	Annual DOE LLU Management Conference	USDOE/INEL	08/28/90 - 08/29/90	81
90-08-020	Briefing on Origin & Current Status of the Measurement Quality Assurance Program	U.S. NRC	08/14/90 - 08/14/90	51

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
90-09-001	Educational Day on Radon	American Medical Association	09/15/90 - 09/15/90 09/22/90 - 09/22/90	041
90-09-001b	Educational Day on Radon	American Medical Association	06/02/90 - 06/02/90 09/27/90 - 09/27/90 05/15/90 - 05/15/90	41
90-09-001b	Educational Day on Radon	American Medical Association	09/15/90 - 09/15/90	041
90-09-001c	Internal Dosimetry	Camberra Industries, Inc.	09/24/90 - 09/28/90	324
90-09-002	Risk Analysis in Environmental & Occ. Health	Harvard School of Public Health	09/05/90 - 09/07/90	161
90-09-002a	Educational Day on Radon	American Medical Association	09/29/90 - 09/29/90	41
90-09-003	Principles & Applications of Thermoluminescenc Dosimetry	Victoreen, Inc.	09/11/90 - 09/13/90	161
90-09-004	Radiation Protection in the 1990s	Technical Management Services, Inc.	09/19/90 - 09/21/90	101
90-09-005	Citizen Involvement in Low-Level Radioactive Waste Policy Implementation	NY State Energy Res. & Devel. Auth.	09/14/90 - 09/14/90	21
90-09-006	ACURI '90 meeting	Susquehanna Valley Chapter of NPS	09/06/90 - 09/07/90	41
90-09-007	28th meeting of the EEI RP Committee	EEI	09/24/90 - 09/26/90	124
90-09-008	Local Chapter Meeting NPS	Louisiana Nuclear Society	09/18/90 - 09/18/90	21
90-09-009	Radioactivity and Scrap Metal Seminar	Inst. of Scrap Recycling Industries	09/12/90 - 09/12/90	81
90-09-010	National State Liaison Officers Meeting	U.S. NRC	09/11/90 - 09/12/90	61
90-09-011	Symposium on Radioactive Waste Repository Licensing	Natl. Academy of Sciences	09/17/90 - 09/18/90	81
90-09-012	Full Seminar	VA Society of Radiological Tech	09/14/90 - 09/14/90	41
90-09-013	Cosmic Radiation Exposure of Air Carrier CREWMEMBERS	Federal Aviation Administration	09/18/90 - 09/19/90	81
90-09-014	Radiation Monitoring Systems Users Group	Sorrento	09/24/90 - 09/25/90	41
90-09-015	Protective Measures Technical Workshop	USNRC	09/26/90 - 09/27/90	16
90-10-001	Respiratory Protection At Nuclear Facilities	Radiation Safety Associates, Inc.	10/15/90 - 01/19/90	324
90-10-002	Techniques in Nuclear Radiation Shield	University Texas, Engineer	10/15/90 - 10/18/90	324

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
90-10-003	Analysis			
90-10-003	Management of Electromagnetic Energy Hazards	Rutgers University/Cook College	10/24/90 - 10/26/90	001
90-10-004	1990 Radiation Exposure Management Seminar	Westinghouse Electric Corporation	10/28/90 - 10/31/90	101
90-10-005	VAX/VMS APOGEE Algorithms	Canberra Industries	10/15/90 - 10/15/90	01
90-10-006	Advanced Internal Dosimetry for Whole Body Counting	Canberra Industries	10/15/90 - 10/16/90	161
90-10-007	VAX/VMS 5800 Spectroscopy Algorithms Course	Canberra Industries	10/15/90 - 10/15/90	01
90-10-008	Introduction to Internal Dosimetry	Canberra Industries	10/15/90 - 10/16/90	161
90-10-010	Environmental Radiation and Public Policy	HPS Environmental Radiation Section	10/23/90 - 10/25/90	101
90-10-011	Licensee Workshop	U.S. NRC	10/10/90 - 10/10/90 10/12/90 - 10/12/90	01
90-10-012	ORC Worker Safety Conference	U.S. DOE	10/30/90 - 11/01/90	161
90-10-013	Northeast Regional Symposium on Radiation Safety in the Academic/Research Environment	New England Chapter HPS	10/11/90 - 10/11/90	41
90-10-014	Basic Radiological Health Course	Balt.-Wash. Chapter HPS	10/10/90 - 10/11/90	321
90-10-015	Physician's Seminar on Radiation Injuries	Duquesne Light Co.	10/13/90 - 10/13/90	161
90-10-016	Medical Seminar on Radiation and Health	E. S. Hershey Medical Center	10/28/90 - 10/28/90	01
90-10-017	Laser Safety	Engineering Technology Institute	10/15/90 - 10/19/90 02/25/91 - 03/01/91 06/24/91 - 06/28/91 11/11/91 - 11/15/91	161
90-10-018	Fall Meeting	Virginia Chapter, HPS	10/12/90 - 10/14/90	21
90-10-019	Compliance with New 10CFR20	Technical Management Services, Inc.	10/27/90 - 10/27/90	32
90-10-020	Radioactive Waste: Where Are We Going?	Greater NY Chapter HPS	10/15/90 - 10/15/90	04
90-11-001	REIS/DOE Radial. Effluent Tech. Spec. & the Offsite Dose Calculation Manual	Actian-Tech, Inc.	11/05/90 - 11/09/90 11/12/90 - 11/16/90	321
90-11-002	Internal Dosimetry and Bioassay	New York Power Authority	11/13/90 - 11/16/90 12/11/90 - 12/14/90	321
90-11-002a	Low-level Waste Disposal for the Southwestern Compact (Eighth Annual Fall Conference)	CA Radioact. Materials Mgmt. Forum	11/10/90 - 11/19/90	01

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
90-11-003	Crisis & Post Crisis Management	Southern California Edison Company	11/30/90 - 11/30/90	61
90-11-004	Transportation Course	Atomic Energy Control Board	11/06/90 - 11/08/90	161
90-11-005	Medical Lasers & Safety	Engineering Technology Institute	11/14/90 - 11/16/90 05/25/91 - 05/27/91 05/28/91 - 05/31/91	01
90-11-006	Fall Seminar-Appalachian District Society of Radiologic Technologists	Appalachian District Society of Radiologic Technologists	08/21/90 - 08/23/90 11/09/90 - 11/09/90	41
90-11-007	Radiation Accidents and the Radiology Department - RSHA Course 322	RSHA	11/26/90 - 11/26/90	31
90-11-008	RSHA Course 421: Risk vs Benefit in Diag. Radiology: Biol effects of Low Doses of X-rays	RSHA	11/27/90 - 11/27/90	31
90-11-009	Annual Oration in Radiation Oncology	RS64	11/25/90 - 11/30/90	31
90-11-010	RSHA Course 522: The Radon Problem	RSHA	11/20/90 - 11/28/90	31
90-11-011	Fall 1990 Technical Meeting	Rio Grande Chapter - HPS	11/14/90 - 11/14/90	04
90-11-012	Low Level Environmental Counting by Liquid Scintillation Analysis	Packard Instruments	11/20/90 - 11/20/90	00
90-11-013	HRC Region II RPE Meeting	USORC	11/20/90 - 11/29/90	00
90-11-014	Ultrasonically Guided Seed Implementation for the Treatment of Early Stage Prostate Cancer	Northwest Hospital	11/05/90 - 11/06/90	06
90-12-003	AHS Conference on Self-Assessment	American Nuclear Society	12/03/90 - 12/05/90	10
90-12-004	7th Annual LLU Generators Conference	Illinois Dept. of Nuclear Safety	12/13/90 - 12/13/90	04
90-12-005	X-Ray & Radioactive Material Users Conference	Illinois Dept. of Nuclear Safety	12/14/90 - 12/14/90	04
90-12-006	Radioactive Disposal	San Onofre NCS	12/19/90 - 12/19/90 12/20/90 - 12/20/90	04
91-01-003	Laser Hazard Assessment Course	USAF School of Aerospace Medicine	01/26/91 - 02/01/91 08/05/91 - 08/09/91	161
91-01-004	Laser Fundamentals & Systems	Engineering Technology Institute	01/20/91 - 02/02/91 05/06/91 - 05/10/91 10/21/91 - 10/25/91	01
91-01-005	Health Physics in Radiation Accidents	HEAT/HS	01/14/91 - 01/18/91 09/16/91 - 09/20/91	161
91-01-006	RETS/DOE Training	Susquehanna Steam Electric Station	01/07/91 - 01/11/91	32
91-01-007	40HP, Part II, Certification Review	Reynolds Electric & Engineering	01/01/91 - 01/01/91	32

DESIGNATOR	COURSE TITLE	COURSE SPONSOR	DATE PRESENTED	CECS
91-01-000	Nuclear Power Plant Accidents - Medical Response Training for Arkansas Nuclear One	Radiation Management Consultants	01/29/91 - 01/30/91	32
91-02-001	Sorrento Electronics Radiation Monitoring User's Group Meeting	Sorrento Electronics	02/17/91 - 02/17/91	12
91-02-002	Seminars on Childhood Cancers Due to Exposure to Low-levels of Ionizing Radiation	Atomic Energy Control Board	02/20/91 - 02/20/91	06
91-02-003	Air Sampling in the Radioactive Environment	Hoodson Associates, Inc.	02/25/91 - 03/01/91	32
91-02-004	Skin Decontamination for Radiation Protection Technicians	Radiation Management Consultants	02/11/91 - 02/11/91	08
91-02-005	Health Physics Careers and Opportunities Spring Meeting	Eastern Idaho Chapter HPS	02/23/91 - 02/23/91	06
91-02-006	Medical Effects of Nuclear Weapons	Armed Forces Radiobiology Res. Inst.	02/04/91 - 02/07/91	32
91-03-007	Waste Management '91	University of Arizona	02/24/91 - 02/28/91	12
91-03-008	Pathway Analysis and Risk Assessment for Environ. Compliance & Waste Reconstruction	Radiological Assessments Corp.	02/25/91 - 03/01/91	32
91-03-009	Certification Review for Health Physicists	Skirble Enterprises, Inc	03/17/91 - 03/22/91	32
91-03-002	Fundamentals of Internal Dose Assessment	Washington State Univ.	03/11/91 - 03/15/91	32
91-03-004	Occupational & Environmental Radiation Protection	Harvard School of Public Health	03/25/91 - 03/29/91 08/12/91 - 08/16/91	32
91-03-005	Seminar on Revised Recommendations of ICRP	Atomic Energy Control Board	03/13/91 - 03/13/91	24
91-03-006	Radon and Other Indoor Air Contaminants	AIAA	03/09/91 - 03/09/91	04
91-03-007	Symposium on Non-Ionizing Radiation -- Real or Perceived Hazards	Greater HX Chapter HPS	03/15/91 - 03/15/91	04
91-04-001	British Nuclear Energy Conference on Radiation Protection	British Nuclear Energy Society	04/29/91 - 05/03/91	12
91-04-002	Accelerator Health Physics Radiation Safety	U.S. Army Belvoir RD&E Center	04/08/91 - 04/12/91	32
91-04-003	1991 International Symposium on Radon and Radon Reduction Technology	USEPA	04/02/91 - 04/05/91	12
91-04-004	The Beir V Report and Its Implications	Northeastern HX Chapter HPS	04/17/91 - 04/17/91	04
91-04-006	ABHP Certification Review Course	East Tennessee Chapter HPS	04/01/91 - 06/10/91	32
91-05-001	Selected Topics in Radiological Engineering	Louisiana State University	05/13/91 - 05/17/91	32
91-05-002	Advanced Workshop on Occupational & Environ. Radiation Protection	Harvard School of Public Health	05/13/91 - 05/17/91	32
91-05-003	Industrial Radiation and Gamma Radiation Protection Course	U.S. Army Belvoir RD&E Center	05/06/91 - 05/10/91	32
91-05-004	Practical Radiation Shielding	Shonka Research Associates	05/13/91 - 05/17/91	24
91-05-005	Pioneering Change in a Global Environment Conference & Exposition	AIRHA/ACGIH	05/18/91 - 05/24/91	12
91-05-006	5th International Radiopharmaceutical Dosimetry Symposium	Oak Ridge Associated Universities	05/07/91 - 05/10/91	16
91-06-002	Fundamentals of Radiological Health Physics	Skirble Enterprises	06/03/91 - 06/08/91	32
91-06-003	Advanced Sociological Health Physics	Skirble Enterprises	06/10/91 - 06/15/91	32
91-06-004	Internal Radiation Dosimetry	Skirble Enterprises	06/03/91 - 06/06/91	32
91-06-005	Planning for Nuclear Emergencies	Harvard School of Public Health	06/10/91 - 06/14/91	16
91-06-006	Testing and Certification of Biological Safety Cabinets	Harvard School of Public Health	06/17/91 - 06/21/91 08/19/91 - 08/23/91	16
91-06-007	In-Place Filter Testing Workshop	Harvard School of Public Health	06/24/91 - 06/28/91 08/26/91 - 08/30/91	16
91-06-008	Internal Dosimetry Course	U.S. Army Belvoir RD&E Center	06/18/91 - 06/21/91	32
91-07-001	Management and Disposal of Low-level Radioactive Waste	Harvard School of Public Health	07/15/91 - 07/19/91	32
91-08-001	Laser Hazard Assessment Course	USAF School of Aerospace Medicine	08/05/91 - 08/09/91	16
91-08-002	Environmental Radiation Monitoring Course	U.S. Army Belvoir RD&E Center	08/05/91 - 08/09/91	32
91-09-001	Risk Analysis in Environmental & Occupational Health	Harvard School of Public Health	09/04/91 - 09/06/91	16
91-12-002	Selected Topics in Radiological Engineering	Louisiana State University	12/01/91 - 12/01/91	32

\* denotes applications under review  
 † denotes "new credits"  
 ‡ denotes: 2 credits per half day up to a maximum of 12 credits under the "new" system  
 § credit per day up to a maximum of 3 credits under the "old" system

**ATTENTION:** The 1991 Open Meeting of the Academy will be held from 4:00 p.m. to 5:00 p.m. on Wednesday, July 24th, in the Delaware Suite at the Sheraton Washington Hotel in Washington, D.C. in conjunction with the 36th Annual Meeting of the Health Physics Society. Hope to see you there!!

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