

HPS Accelerator Section – 2005-2006 Annual Report

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Prepared by:  
Lorraine Day – President

Contributions from:  
Sayed Rokni– Past President  
Scott Walker-President-Elect  
Michael Duran - Secretary  
Marcia Torres - Treasurer  
Linnea Wahl – Newsletter Editor

Abstract: This report summarizes the activities of the HPS Accelerator Section for the 2005-2006 business year.

## Annual Report to the HPS Board of Directors

### Recommendations for Action

The Accelerator Section would like to BOD to consider the following items.

1. The H. Wade Patterson Student Award is meant to recognize an outstanding student in accelerator health physics. We are seeking to incorporate the award as part of the Awards Banquet, to both raise the visibility of the award and to recognize an outstanding student at the society level. The student need not advance to the podium to receive the award but might be asked to stand and be recognized. This would only add about 2 minutes to the awards program.
2. The NCCHPS, co-chair of the 2008 mid-year meeting with the Accelerator Section met on 5-18-2006 to discuss planning issues for the meeting. The Chapter strongly recommends that the Title for the 2008 mid-year be changed from "Radiation-Generating Machines" to "Radiation –Generating Devices". The Chapter feels that this would broaden participation. (Note that the 1997 mid-year in San Jose, on Radiation – Generating Machines had not been a financially successful meeting for the HPS). During the section meeting visit with President Ray Guilmette and President-Elect Ruth McBurney last year, the accelerator section agreed to work to broaden the appeal of the proposed meeting and is working to include medical, industrial as well as research applications of Radiation-Generating Devices. The Section is in agreement with the NCCHPS in suggesting that the word "Devices" would have broader appeal than "Machines"..
3. The section's active roster is about 125 members. Close to 2 dozen have or will shortly achieve retirement. That leaves about 100 members who must fill 12 executive positions. The majority of active members have already served.. We are finding it increasingly difficult to fill all the available positions with willing volunteers, and would welcome suggestions from the Board.
4. As a corollary to item 3, we are a stagnant section with few if any new members. This is due, at least in part, to a human capital crisis in Accelerator Health Physics. Spring 8 and CERN used to supply most of the world's Accelerator HP's. The gentlemen most responsible have both retired. HP positions have remained open for as long as 2 years. The section's most recent response to the problem was to reward outstanding students for work in the field through the establishment of the H. Wade Patterson Award. To the author's knowledge, only Idaho State offers any training in Accelerator HP, and that as only part of a program.

Thank you for the board's consideration of these items.

## Section Information

Election of New Officers The following table includes the proposed slate for the newly elected section officers for the 2006-2007 business year. New officers shall assume their respective positions beginning with the Section Board of Directors Meeting scheduled for Monday, June 26 in Providence. Balloting was conducted electronically to all registered members of the section and concluded June 1<sup>st</sup>, 2006. Officers will be confirmed at the Section Business meeting immediately following the Special Accelerator Session on Wednesday, June, 28, 2006.

### OFFICERS

President	Scott Walker; Los Alamos National Laboratory x
President-Elect	Kamran Vaziri, Fermi National Accelerator Lab
Past President	Lorraine Day Louisiana State University
Secretary	Edward Lessard Brookhaven National Laboratory
Treasurer	Marcia Torres, Argonne National Lab
Newsletter Editor	Linnea Wahl, Lawrence Berkeley National Lab
Directors	Erik Abkemeier (2009) Thomas Jefferson Laboratory Richard Brey (2009) Idaho State University Don Gregory (2009) Oak Ridge National Laboratory Michael Sandvig (2008) Idaho National Laboratory Douglas Wells (2007), Idaho State University Gary Zeman (2007), Lawrence Berkeley National Lab

Robert C. Whitcomb Jr.,(2007) Director Liaison to the Accelerator Section.

Treasurer's Report

Accelerator  
Health Physics Society  
Statement of Income & Expenses And Account Balance  
For the Period Ending April 30, 2006

As of May 18, 2006, the section account is as follows with no known outstanding bills to the account.

ACCELERATOR  
HEALTH PHYSICS SOCIETY  
STATEMENT OF INCOME & EXPENSES AND ACCOUNT BALANCE  
FOR THE 8 MONTH PERIOD ENDING APRIL 30, 2006

ACCOUNT BALANCE 8/31/05	6996.82
INCOME RECEIVED	
Dues from HPS Members	655.00
Contributions	0.00
TOTAL INCOME COLLECTED	655.00
EXPENSES PAID	
Collection & Management Fee	65.50
TOTAL EXPENSES PAID	65.50
NET INCREASE FOR YEAR	589.50
ACCOUNT BALANCE 4/30/06	7586.32

## Accelerator Section Special Session

For the past several years, the Accelerator Section, has organized a special session at the annual meeting. This session is devoted to accelerator radiation protection and has once again been arranged for the annual meeting in Providence. This year the format has been changed to a mini-plenary session, permitting extended talks from a list of distinguished speakers. The session will open with the society presenting the volunteer award to the Accelerator Newsletter Editor and NCCHPS liaison for the 2008 mid-year meeting, Linnea Wahl. The keynote address will be given by Lutz Moritz from the TRIUMF accelerator in Vancouver, B.C., Canada. Lutz has a long and distinguished career as an HP, 1973-1980, Head Safety Group 1981-2000 and has recently retired as Environment Health and Safety Director 2001-2006 at TRIUMF. Lutz also completed a 1 year sabbatical at CERN and four months in Japan as a guest of the Japanese Society for the promotion of Science where he studied the hazards of high energy proton accelerators. In addition, Lutz has served on numerous review committees, advisory groups and organizational committees associated with accelerator shielding and safety meetings. Lutz's message is titled "Radiation Safety at Radioactive Ion Beam Facilities." TRIUMF commissioned their Isotope Separator and Accelerator (ISAC) back in 1998 and ISAC remains one of the few facilities of it's kind in the world. Don Cossairt from Fermi Laboratory, fellow of the HPS and Past-President of the section will speak on teaching an accelerator HP class at the annual Accelerator School, James Liu and Scott Walker will present details of the new ANSI N43.1 standard which is being voted on by the N34 committee. This will be followed by scientific presentations.

## H. Wade Patterson Memorial Award

As a tribute to the first section president and the father of accelerator health physics, the H. Wade Patterson Award was established approved by the board 3 years ago. Further, this award represents the section's best attempt to encourage students to pursue careers in the unique Health Physics environment of accelerators. The Patterson Award winner will receive a \$300 cash prize, and a plaque. This award was not bestowed last year (Spokane) as there were no suitable candidates. Some academics in the field of Accelerator Health Physics have been contacted and the Accelerator Board is awaiting copies of student abstracts pertaining to accelerator Health Physics for consideration of potential candidates.

## Accelerator Section Newsletter

### Newsletter

In 2005-2006, we issued four quarterly volumes of the Accelerator Radiation Safety Newsletter. We distributed the newsletter via e-mail to all members of the Accelerator Section and to others interested in accelerator safety. We also posted each issue of the newsletter on a website at <http://www.hps.org/iarpe>.

The contents of the four newsletters included reports from officers of the Accelerator Section and news from correspondents at accelerator facilities around the world. Among the articles contributed by officers and correspondents were a draft OSHA fact sheet on accelerators and a review of SLAC's SHIELD11, a computer program for calculating accelerator shielding requirements. Featured articles included the Accelerator Section's review of the pending ICRP report 92 and an excerpt from Ralph Thomas's presentation at the 13th Annual J. Newell Stannard Lecture Series, "Rigour Within Uncertainty--An Unfinished Quest: ICRP and High-LET Radiations." The newsletter also served as a medium for announcing job openings and training opportunities of interest to the accelerator radiation safety community.

#### 2008 Midyear Preparations

In preparation for the planned 2008 midyear meeting to be cosponsored by the Accelerator Section and the Northern California Chapter, Linnea Wahl agreed to serve as liaison between the section and the chapter. In 2005, the chapter began including midyear preparations as a standing agenda item for the chapter's board of directors, this meets six times a year.

The chapter has been working with Burke Associates on the venue and is seeking guidance from HPS on other preparations. The chapter has prepared a poster highlighting the chapter's activities and identified a promotional film on the host city of Oakland that will be used in midyear booths at upcoming HPS meetings. The board of directors has discussed a website for the midyear, considered possible tours, and identified contacts to the Accelerator Section for technical sessions.

The chapter has begun work on a brochure to advertise the 2008 midyear and the recreational and technical tours that will be available.

<http://www.hps.org/iarpe>.

#### Mid-year Topical Meeting – 2008

The Accelerator Section board of directors is engaged in preliminary planning with the Northern California Chapter of the HPS for holding a 2008 midyear meeting on radiation-generating machines in Oakland, California. The Section would be responsible to prepare the technical program and the Chapter would coordinate the local arrangements. Efforts are being made to include the broadest selection of individuals. In a meeting last year with President Ray Guilmette and President-elect Ruth McBurney in Spokane, the section pledged to broaden the scope to include medical and industrial devices.

Respectfully submitted,

Lorraine Day, PhD  
President