

Accelerator Section  
2007 Semi Annual Report

Prepared by Kamran Vaziri  
Accelerator Section President

Abstract: This report summarizes the activities of the HPS Accelerator Section from July 2007 thru January 18<sup>th</sup>, 2008. No recommendations to the HPS Board are made in this report.

## **Report to HPS Board of Directors**

1. In 2007 most of the attention and energy of the Accelerator Section has been focused on the Professional Development School (PDS) and Midyear meeting on Radiation Generating Devices.

(a). The preparations for the PDS are almost complete. One hundred and fifty text books are printed. The enrollment at the school is at 112 students with one week to go. At the 2007 annual Health Physics Society (HPS) meeting in Portland, Oregon, we hosted a silent auction of Dr. Ralph Thomas's rare books to benefit the scholarship fund of the 2008 PDS. The July 9-10 auction was a huge success and we raised \$1200 to sponsor a student to attend the 2008 school. The scholarship attracted several highly qualified applicants, and the Selection Committee (Ken Kase, Genevieve Roessler, and Ralph Thomas) had a difficult decision to make. After much deliberation, the scholarship was awarded to Kimberly Burns, a graduate student at Georgia Tech. The co-deans Don Cossiart and Vaclav Vylet and administrative dean Linnea Wahl have done a superb job.

(b). About 138 abstracts for papers and posters have been submitted to the midyear. So far there are been only ten withdrawals. Four Continuing Education Lectures, nine Professional Enrichment Programs and two AAHP courses have been planned. Two of the keynote speakers will be the Morgan Lecturer awardees. On Tuesday night we will have a panel discussion on the health physics concerns of nano-particles. Northern California Chapter of HPS has been instrumental in helping with the meeting and the arrangement of the local activities. Several events, tours of the area and technical tours are planned. The gracious support of HPS presidents, program managers, program committee, webmaster and special publications editor have been invaluable.

Accelerator section's President-Elect, Henry Kahnhauser is planning the Special Accelerator Session, scheduled to be held during the 2008 annual HPS meeting in Pittsburgh PA. We have informed Matt McFee and Chris Martel of our intention to support a special session. Because the 2008 Midyear and the Professional Development School schedule, most of the preparation for annual meeting is postponed to after the Midyear.

The Accelerator Section plans to nominate an accelerator health physicist as a G. William Morgan lecturer at the 2008 annual meeting. Several outstanding candidates have been identified and the internal section selection process will start shortly. Our nomination will be made to Chair of Awards Committee by March 1.

We will be selecting one student's work submitted to the annual meeting to receive the Wade Patterson Award. The runner up if any, will receive an honorable mention certificate.

**Accelerator Section  
Health Physics Society  
Statement of Income & Expenses and Account Balance  
For the Period Ending July 30, 2007**

We are anticipating a few small expenditures for the 2008 mid-year. As of 01/09/2008, this is the accounting to the best of our knowledge\*. Also not reflected are a \$300 Wade Patterson Award and a \$30 for engraving and shipping the plaque. Please note that this statement does not include 2008 dues, as they have not yet been posted, nor does it include the account management fee. We do not believe that there were any other significant changes to this statement since its issue by the secretariat at the end of April, 2007.

**ACCELERATOR  
HEALTH PHYSICS SOCIETY  
STATEMENT OF INCOME & EXPENSES AND ACCOUNT BALANCE  
FOR THE 8 MONTH PERIOD ENDING APRIL 30, 2007\***

<b>ACCOUNT BALANCE 8/31/06</b>	<b>7,640.32</b>
<b>INCOME RECEIVED</b>	
<b>Dues from HPS Members</b>	<b>635.00</b>
<b>Contributions</b>	<b>0.00</b>
<b>Interest Income</b>	<b>0.00</b>
<b>TOTAL INCOME COLLECTED</b>	<b>635.00</b>
<hr/>	
<b>EXPENSES PAID</b>	
<b>Reimburse Walker</b>	<b>64.40</b>
<b>Collection &amp; Management Fee</b>	<b>63.50</b>
<b>TOTAL EXPENSES PAID</b>	<b>127.90</b>
<hr/>	
<b>NET INCREASE FOR YEAR</b>	<b>507.10</b>
<b>ACCOUNT BALANCE 4/30/07</b>	<b>8,147.42</b>

\*Note: This is not the official treasurer's statement, but is close. It does not Show the \$300 Wade Patterson Award.

## Section Information

The Accelerator Section of the Health Physics Society held its annual business meeting during the 2007, 52<sup>nd</sup> Annual Meeting of the Society in Portland, Oregon. At this meeting, newly elected officers were announced, and immediately assumed their respective positions. The officers of the Section for 2007-08 are:

### OFFICERS

President	Kamran Vaziri, Fermi National Accelerator Lab
President-Elect	Henry Kahnhauser, Brookhaven National Lab
Past President	Scott Walker, Los Alamos National Laboratory
Secretary	Ed Lessard, Brookhaven National Lab
Treasurer	Marcia Torres, Argonne National Lab
Newsletter Editor	Linnea Wahl, Lawrence Berkeley National Lab
Directors	

Erik Abkemeier (2009), Thomas Jefferson National Accelerator Facility

Richard Brey (2009), Idaho State University

Michael Duran (2010), Los Alamos National Laboratory

Don Gregory (2009), Oak Ridge National Lab

Michael Sandvig (2008) Idaho National Laboratory

Mike Singh (2010), Livermore National Lab

Nolan Hertel (2008) Director Liaison to the Accelerator Section

## Section Activities

This last year has been an extremely busy time for the accelerator section. During the 2007 annual meeting the Accelerator Section presidents, Scott Walker, I and Lorraine Day, the PDS administrative dean Linnea Wahl, the Northern California Chapter of HPS Midyear program committee, the HPS program committee and the secretariat held daily meetings. These meetings were extremely useful for planning the content, logistics, local arrangements, and advertising for the meeting and PDS; obtaining plenary and keynote speakers for AAHP courses, CELs, and PEPs: and scheduling different milestones.

The Accelerator Section Board of Directors met on Sunday night. Of course the progress on the preparation for the midyear was reported. The previous years' minutes were discussed. For the minutes of this year the treasurer and I have combined our notes from the meeting. The past president reported on the election results. Scott Walker reported on the progress on ANSI43.1. This standard is in the final stages, getting ready for publication. Scott Walker has submitted a new logo for the Accelerator Section. It was decided that it will be put to vote at the 2008 midyear board meeting. There will be an Accelerator Section board meeting at the midyear.

Our section's technical session started, on Wednesday morning, with the Morgan Lecturer presentation and was followed by 10 very interesting papers. Our Morgan

Lecturer Anthony Sullivan was not able to attend the meeting, but one of the founders of our section, Dr. Ralph Thomas, kindly came to our rescue. Ralph presented Dr. Sullivan's talk titled, "Radiation Safety around High Energy Particle Accelerators (As Seen with the Benefit of Hindsight)", which he annotated with his own commentary to a packed room. All of the Section's Morgan Lectures are available on the Section webpage. There was a lot of interest in the presentations and questions that we had to relegate to after the meeting, due to lack of time.

The section business meeting at noon followed the accelerator session. Scott Walker reported on the preparatory work for the 2008 midyear meeting and on the status of the ANSI 43.1 standard, and we received a report on the Sunday night board meeting and the treasurer's report. The results of the election of the new officers were presented to the members and were approved. Marcia Torres, the Accelerator Section Treasurer, reported income and expenses of the Section. The 2007 Wade Patterson awards were presented to the winner and the runner up. The Section adjourned after the final reminder to the members about the 2008 Midyear and the PDS.

### **2007 H. Wade Patterson Memorial Award**

At the 2007 Annual meeting, the Accelerator Section announced two honorees for the H. Wade Patterson Award. The winner of the H. Wade Patterson Award for the best accelerator-related paper went to Bryan Bednarz for his paper on Monte Carlo-based calculations of neutron activation in a medical linear accelerator. Bryan is from Rensselaer Polytechnic Institute in Troy, New York. Bryan's work focused on the determination of the activation potential from medical linear accelerators as sources of occupational exposure and un-intended patient exposure. Bryan received a plaque and \$300 honorarium for his efforts.

The accelerator section congratulated Maxwell Ankrah upon receiving an honorable mention for his work on "Active, Non-Intrusive Inspection Technologies for Homeland Defense." Maxwell plans to use accelerator-based imaging technologies to interrogate shipping containers Maxwell is a student at Idaho State University in Pocatello, Idaho. Maxwell received a certificate of merit.

Both students were fortunate to spend a little time with Dr. Ralph Thomas, who had known Wade personally for many years and who took the time to share a few anecdotes about the man in whose memory this award was created. Each of these students was also recognized at the HPS banquet by Past President Ruth McBurney during the society awards. This was the first time that this award has been recognized at the society level and we are grateful to the HPS Board of Directors for their gracious acceptance of our request for societal recognition.

### **Newsletter Update for the 2008 Semiannual Report**

In the last half of 2007, we prepared and distributed the fall and winter quarterly volumes of the Accelerator Radiation Safety Newsletter. The newsletter is distributed world-wide

via e-mail to all members of the Accelerator Section and to others interested in accelerator safety. The newsletter is also available on the web at <http://www.hps.org/iarpe>. The contents of the newsletters included reports from officers of the Accelerator Section and news from correspondents at accelerator facilities around the world. The newsletters provided information about the 2008 HPS Midyear Topical Meeting on “Radiation-Generating Devices” and the 2008 HPS Professional Development School on “Topics in Accelerator Health Physics.” Articles included the 2007 G. William Morgan Memorial Lecture given by Anthony Sullivan, a discussion of the Nuclear Regulatory Commission’s policy on naturally occurring and accelerator-produced radioactive material, and a tribute to the recent winners of the H. Wade Patterson Award

**ANSI N43.1: Radiation Safety for the Design and Operation of Particle Accelerators.**

James Liu and Scott Walker, co-chairs of the committee report that the second round of comment resolution was completed after the second N43 committee ballot. The American National Standards Institute ANSI N43.1 on Accelerator Radiological Safety Standards, ANSI N43.1, is proceeding to publication.

Respectfully submitted,

Kamran Vaziri