



**North Central Chapter Health Physics Society**  
**Minutes of the Executive Council Meeting**  
**9 April 2015**  
**Ames, IA**

Attendees: Victor Goretsky, Sam Hays, Barbara Hodge, Shari Mask, Glenn Sturchio and Mike Lewandowski

Minutes

The meeting was called to order at 7:41 PM by President Glenn Sturchio. The members of the Council in attendance introduced themselves. Applications for Chapter membership were circulated for Council review. Minutes of the Fall Executive Council Meeting were approved unanimously. Three new member applications were reviewed and approved by the Council. The new members are: Ken Kerns (returning member), Vai Paye and Kyle Underwood.

The Secretary/Treasurer's report was presented (attached). The number of members is slightly smaller than previously since several members who have not responded to any communications have been removed from the roster. Slightly more than 70% of members have paid their dues. The Chapter's financial status remains relatively flat with about \$29,000 in the bank accounts. The Chapter's finances will provide for bringing in speakers to meetings. Projecting the costs of the meeting continues to be tricky, but the higher than projected attendance for this meeting should result in a slight profit from this meeting.

A previous Council asked about the ability to pay registration and other fees by credit card. A company called Square Up provides the ability to do this at a relatively small per transaction fee with no monthly charge. The fee associated with this is about \$0.50 per \$10 dues or \$1 for a \$30 meeting fee. The fine print associated with accepting credit cards may prevent passing along the credit card fee to members. There may be ways to add in a "convenience fee" for using a credit card. The costs associated may be small enough to simply absorb the fee. PayPal was also noted as an option so fees could be paid over the web site. The Council suggested polling the meeting attendees to determine the level of interest.

Mike Lewandowski also asked about the Council's experience with the use of Gmail as the method to communicate to the membership. The Council noted that there were no problems with the use of Gmail.

Glenn noted that Chris Kessler submitted the Affiliate's Report. Mike Lewandowski noted that one additional affiliate member dues was received since the report was issued. Mike noted that Chris has done a great job with the affiliate members and their contributions help to defray the costs of the meetings.

Mike Lewandowski reported that the web site is up to date and any requests for information added to the web site be sent to him. Shari Mask created a brochure that markets the radiation instrument kit. The brochure will be a great tool and will be added to the web site.

Mike reported that the Health Physics Society instrument kit uses the same minigenerator as the Chapter. The minigenerator was reported to be leaking by a teacher and the kit came apart when it was being checked out after return. Mike described the failure and noted that the Chapter's



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generator may be subject to the same failure. Options discussed included replacing the Chapter's generator or removing it from the kit. Questions were asked about the manufacturer's working life and history of failure. Mike will contact the minigenerator manufacture (Spectrum Techniques) to inquire about the generator's expected working life or any failure history. Mike also noted that the Chapter's incorporation within the State of Minnesota may not be up to date. Questions were also raised about any liability coverage provided by the Health Physics Society. Glenn volunteered to raise that question at the Chapter Council meeting in July.

Shari Mask reported that the Chapter nominated Glenn Sturchio for the HPS Fellow Award and she was informed that Glenn was selected to receive the Fellow Award. The Council congratulated Glenn on receiving the award. Glenn expressed his appreciation to the Chapter for the nomination.

Mike Lewandowski noted that the 2015 election was going on at this time. The officers elected at the 2014 election were President-elect Shari Mask, Councilor Sam Hays and Councilor Jason Timm. As Past President, Glenn Sturchio will chair the Nomination Committee.

Shari Mask reported that Mary Ellen Jafari would not be able to attend the meeting and present due to illness. Glenn noted that Gordon Tannahill had presented a talk on medical laser safety that was very well received at Mayo. Glenn called Gordon and asked him if he was able to present. Gordon responded that he was ready to present.

The high quality of the technical program was noted and Shari Mask was thanked for her work in putting together the program.

Sam Hays volunteered to summarize the meeting for Health Physics News.

Six continuing education credits have been awarded by the AAHP for the meeting. The course number is 2015-04-002.

Locations for the Fall Meeting were discussed. One possibility is for 3M to host. The Council discussed asking the State of Minnesota if they are willing to host. The Mayo Clinic Sports Medicine facility in Minneapolis and the University of Minnesota were also suggested. Hamline University was mentioned. Target Field was also mentioned as an interesting venue. Victor volunteered UW Madison to host the next Spring Meeting.

Under Other Business, the Council discussed pursuing incorporation. Mike Lewandowski will contact the State of Minnesota to determine the Chapter's status. Glenn noted that it may also be prudent to explore a liability insurance policy.

Victor asked about the status of the Science Teacher Award presented to David Ropa. Mike reported that the certificate and checks were mailed to Mr. Ropa and that the checks have been cashed. The Council discussed inviting Mr. Ropa to either the Fall Meeting or the 2016 Spring



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Meeting (to be held in Madison). It was decided to invite him to the meeting in Madison in 2016.

Glenn noted that he was planning to purchase a pewter mug for Gary to commemorate his service as Chapter President. Glenn will also order one commemorating his service as Chapter President.

The meeting was adjourned at 8:44 PM.

Respectfully submitted,

Mike Lewandowski  
Secretary/Treasurer



**NCCHPS**  
**Executive Council Meeting**  
**9 April 2015**  
 Gateway Hotel and Conference Center  
 Carver Board Room  
 2100 Green Hills Drive  
 Ames, IA

**AGENDA**

1	Call to Order
2	Welcome and Introductions
3	Review/Approve Fall 2014 Meeting Minutes
4	Approve New Member Applications
5	Secretary/Treasurer's Report – Mike Lewandowski <ul style="list-style-type: none"> <li>• Square Reader</li> <li>• MailChimp</li> </ul>
6	Affiliates Report – Chris Kessler
7	Other Reports – Mike Lewandowski <ul style="list-style-type: none"> <li>• Website</li> <li>• Radiation Instrument Kit</li> <li>• Nuclear Radiation Science Grant</li> <li>• Science Teacher Meetings &amp; Workshops</li> <li>• Science Teacher Award</li> </ul>
8	HPS Award Nominations – Shari Mask
9	Chapter Elections – Mike Lewandowski <ul style="list-style-type: none"> <li>• 2014 Special Election Results</li> <li>• 2015 Election Status</li> </ul>
10	2015 Spring Meeting <ul style="list-style-type: none"> <li>• Program review – Shari Mask</li> <li>• Logistics – Jeff Eaton?</li> <li>• Councilor assignment for HP News article</li> </ul>
11	AAHP Credits for Spring 2015 Meeting 6 credits course number 2015-04-002
12	Fall 2015 Meeting Location
13	Other Business
14	Adjourn

# North Central Chapter of the Health Physics Society

## Secretary/Treasurer's Report

April 2015

Submitted by Mike Lewandowski

### Membership Summary

Voting members	106
	14 <i>Emeritus</i>
Student members	1
Total	107
Affiliate members	10

*Note: 30% of members have not yet paid their 2015 dues!*

New members:

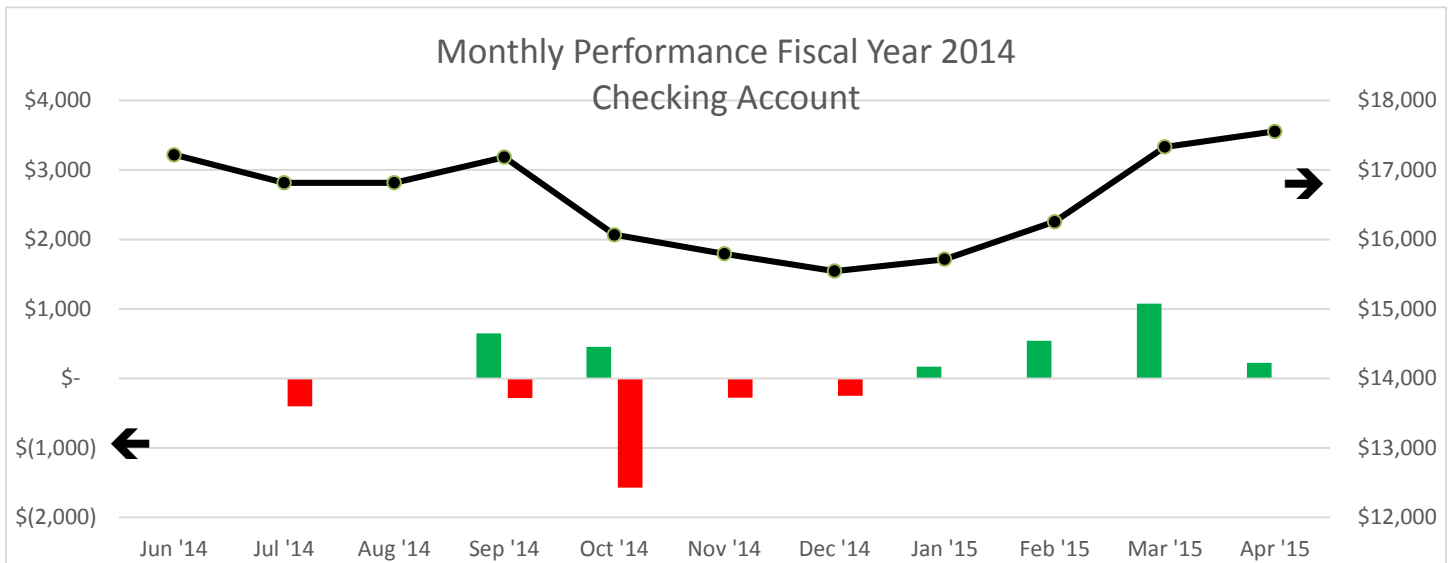
- Ken Kerns – University of Minnesota (returning member)
- Vai Paye – 3M Company

### Fiscal Year Summary

	1 July 2014	3 April 2015
Checking Account	\$ 16,907.25	\$ 17,556.51
Savings Account	\$ 11,793.51	\$ 11,802.33
Total Assets	\$ 28,700.76	\$ 29,358.84

### Actions that impact the Chapter's finances

1. The Executive Council agreed to offer complementary registration to any Chapter member who presents a paper at a Chapter meeting.
2. The Executive Council determined that the meeting registration fee should be set to cover the meeting cost.



**North Central Chapter of the Health Physics Society**

Secretary/Treasurer's Report

April 2015

**NCCHPS Financial Report Fiscal Year to Date**

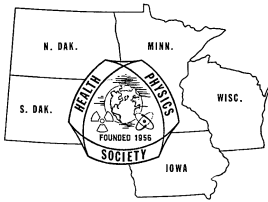
1 July 2014 - 3 April 2015

<b>INCOME</b>		<b>EXPENSES</b>	
Affiliate Dues	\$ 250.00	HPS Pres Elect Visit	\$ 226.48
TOTAL Dues	\$ 730.00	TOTAL Science Teacher Award	\$ 503.58
2014	\$ 90.00	<i>Science Teacher Award</i>	\$ 500.00
2015	\$ 540.00	<i>Postage</i>	\$ 3.58
2016	\$ 90.00	Science Teacher Meeting	\$ 66.00
2017	\$ 10.00	Speaker Gifts	\$ 606.00
Interest	\$ 14.90	Wissink Speaker	\$ 21.47
Madison Meeting	\$ 1,311.46	Stipend to Lakeshore Tech Coll.	\$ 1,000.00
<b>General INCOME</b>	<b>\$ 2,306.36</b>	<b>General EXPENSES</b>	<b>\$ 2,423.53</b>

<b>Meeting Income</b>		<b>Meeting Expenses</b>	
Affiliate	\$ 450.00	Executive Council Room	\$ 50.00
Donation	\$ 15.00	Facility	\$ 423.16
Registration	\$ 580.00	Food	\$ 886.59
<b>Fall Meeting INCOME</b>	<b>\$ 1,045.00</b>	<b>Fall Meeting EXPENSES</b>	<b>\$ 1,359.75</b>
		Fall Meeting NET (Actual)	\$ (314.75)

Affiliate	\$ 550.00	Executive Council Room	\$ 75.00
Registration	\$ 540.00	Facility	\$ 225.50
<i>Registration Due</i>	\$ 270.00	Food	\$ 926.50
<b>Spring Meeting INCOME</b>	<b>\$ 1,090.00</b>	<b>Spring Meeting EXPENSES - estimated</b>	<b>\$ 1,227.00</b>
		Spring Meeting NET - estimated	\$ 133.00

<b>TOTAL INCOME (Actual)</b>	<b>\$ 4,441.36</b>	<b>TOTAL EXPENSES (Actual)</b>	<b>\$ 3,783.28</b>
		Fiscal Year NET (Actual)	\$ 658.08



## North Central Chapter

### Affiliate Member Report April 10, 2015 Spring Technical Meeting

Chris Kessler, Affiliate Coordinator

The North Central Chapter of the Health Physics Society (NCCHPS) has 10 active affiliate members for calendar year 2015 to date generating \$225 in annual affiliate dues. A list of the current affiliates is at the bottom of this report. The NCCHPS web site reflects the current affiliate members.

Solicitation of affiliate member support for the spring 2015 technical meeting began in January. E-mail contacts of all likely affiliate member exhibitors or sponsors were made. Follow-up telephone calls were made, as necessary, to members that did not respond to the e-mail solicitation.

Four affiliate members agreed to exhibit or sponsor the meeting:

- Landauer, Inc. (Eric Annis) – Exhibitor
- Canberra Industries (Andy McLain) – Exhibitor
- DEQ Technical Sales (Jeff Anspaugh) – Exhibitor
- K & S Associates, Inc. (Peter Gordon) – Sponsor

A total of \$550 in exhibition/sponsor fees has been collected to defray the cost of the spring 2015 meeting.

#### **2015 Affiliates**

##### **Company**

Arrow-Tech, Inc.  
Canberra Industries  
DEQ Technical Sales (Ludlum Rep)  
F&J Specialty Products, Inc.  
HI-Q Environmental Company, Inc.  
K & S Associates, Inc.  
Landauer, Inc.  
Mirion Technologies (Dosimetry Services)  
S&G Enterprises, Inc.  
Scientific Instrument Sales

##### **Contact**

Perry LaFountain  
Andy McLain  
Jeff Anspaugh  
Frank Gavila  
Marc Held  
Peter Gordon  
Eric Annis  
Tom Chwierut  
Mark Griffith  
Richard Love

North Central Chapter of the Health Physics Society  
Report to the Executive Council  
April 2015

Submitted by Mike Lewandowski

*Web Site*

The web site was updated with draft 2014 Fall Council and Business Meeting minutes and the results of the 2014 election.

*Radiation Instrument Kit*

A brochure describing the instrument kit was prepared by Shari Mask. The brochure will be posted on the web site.

The kit was used by Century HS in Rochester, MN, Chapter member Brian Hinderliter since the fall meeting. The Chapter was contacted by Chapter member Rob McTaggart about using the kit at a workshop in the summer.

The Council should be aware that the minigenerator in the HPS kit failed resulting in the kit leaking detectable quantities of Cs-137. The minigenerator used in the HPS kit is the same as the one in the Chapter kit. The minigenerator in the Chapter kit appears to be sound, but the Council should be aware of the possibility of a sudden failure at a school.

*Nuclear and Radiation Science Grant*

No applications were received.

*Science Teacher Meetings*

No science teacher meetings were attended.

*Science Teacher Workshops*

No workshops were offered.

*Science Teacher Award*

No award nominations were received.



## Radiation Instrument Kit



### Contents of the Kit

The Radiation Instrument Kit provides the materials and equipment for students to conduct several data collection and radiation principle experiments. The kit contains a classroom set of 6 digital Vernier Radiation Monitors with LabPro interfaces, a copy of Vernier Logger Pro software, a copy of Nuclear Radiation with computers lab manual, and 6 each beta and gamma radiation sources. Shielding materials and a mini-generator for a half-life experiment are also included.

The kit is available for classroom use for periods of up to one week at a time.

## North Central Chapter, Health Physics Society

**Mike Lewandowski**  
**Corporate Health Physics**  
**3M Center, Bldg 220-6W-08**  
**St. Paul, MN 55144**  
**Phone: 651-737-4452**  
[NorthCentralHPS@gmail.com](mailto:NorthCentralHPS@gmail.com)

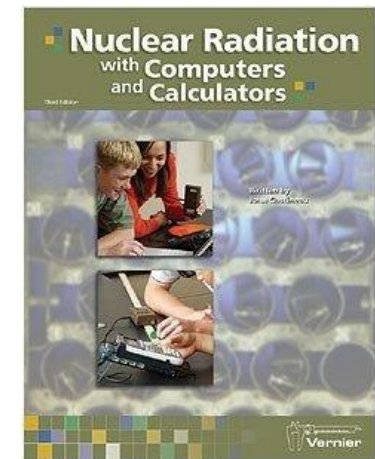


# NCCHPS

*North Central Chapter, Health Physics Society*

## Radiation Instrument Kit

*Hands on educational aid in basic nuclear science for Physics and Science Teachers*



**Specialists in  
Radiation Safety**

**Phone: 651-737-4452**

## Radiation Detection



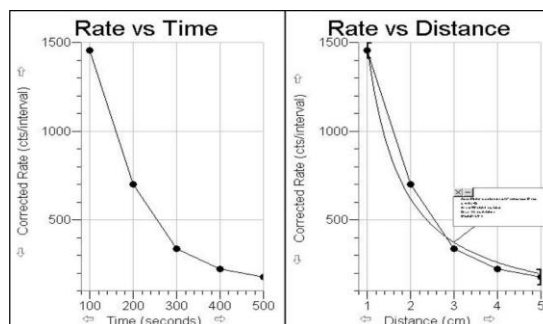
Geiger-Mueller (GM) Tube  
Radiation Monitor

### Radiation Monitor

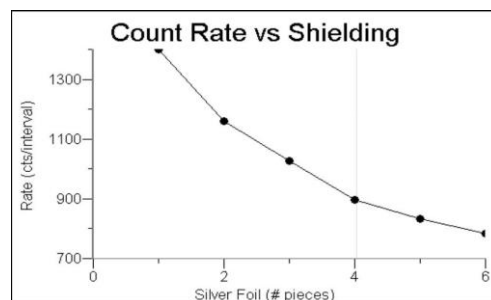
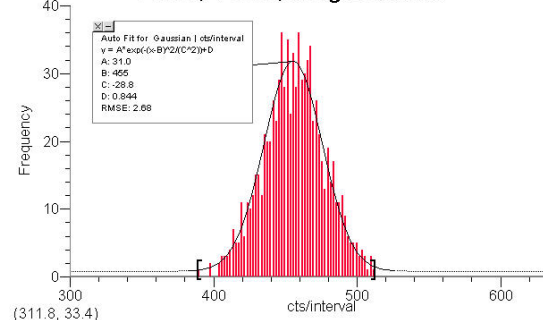
The Vernier Digital Radiation Monitor utilizes a fully enclosed Geiger-Mueller tube to detect alpha, beta, and gamma radiation. Alpha and beta radiations are measured in counts per minute (CPM). Gamma radiation measurement is displayed in milli-Roentgens per hour (mR/h).

The radiation monitor can be used with either a computer or graphing calculator.

### Data Analysis



### 14 Hr, 1 min, Single Mantle



### Classroom Applications

The curricular material contains six experiments written for use with the kit as well as a CD containing the word processing files for each of the student experiments.

Data collection, analysis, and experiments include counting statistics, background radiation quantification, radioactive material identification, effects of time, distance, and shielding, and differentiation between alpha, beta, and gamma radiation.

To request the kit online -

Log on to the NCCHPS website:  
<http://hps1.org/chapters/ncc/>

Click on "Radiation Instrument Kit"

Check availability of desired dates on  
calendar

Complete the reservation form and  
submit electronically



## NCCHPS Spring Technical Meeting

Friday, 10 April 2015  
 Iowa State University  
 Iowa State Center, Ames, Iowa 50011  
 Scheman Building Room 260-262



### AGENDA

7:30 AM	<b>Registration</b>
8:15 AM	<b>Welcome &amp; Introduction</b> Shari Mask; NCCHPS President-elect Eric Armstrong; Iowa State University
8:30 AM	<b>History of Challenge Coins</b> Shari Mask, RRPT, Radiation Safety Office, Marshfield Clinic
8:45 AM	<b>Dynamic Nuclear Polarization – Nuclear Magnetic Resonance Spectroscopy</b> Marek Pruski, Ph.D, Professor Department of Chemistry, Iowa State University
9:30 AM	<b>Characterization of an isotopic neutron source and other irradiation studies</b> Robert McTaggart, Ph.D, Physics Professor, South Dakota State University
10:00 AM	<b>Break</b>
10:30 AM	<b>Department of Residence Radon Testing Project</b> Jeff Eaton, Health Physicist, Radiation Safety, Iowa State University
11:00 AM	<b>Skin contamination and radiation dose associated with research radionuclides</b> Kyle Underwood, MS, Health Physics Associate Glenn Sturchio, Ph.D, Radiation Safety Officer, Mayo Clinic
11:30 PM	<b>Former Nuclear Weapons Workers Medical Screening Program</b> Marek Mikulski, PhD, Co-Principal Investigator, FWP
12:15 PM	<b>Lunch</b>
1:00 PM	<b>NCCHPS Business Meeting</b>
1:30	<b>VERITAS: Very Energetic Radiation Imaging Telescope Array System</b> Amanda Weinstein, Ph.D., Assistant Professor, Astronomy, Iowa State University
2:15 PM	<b>Break</b>
2:30	<b>Medical Laser Safety for Safety Professionals</b> Gordon Tannahill, MS, Mayo Clinic
3:15 PM	<b>Adjourn</b>
	<b>Tour - ISU's Bio-Century Research Farm</b>

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