



NCHPS NEWSLETTER

MAY 2006

Every spring meeting we have new elected officials that help improve our Health Physics Society. I would like to introduce our newly elected officials for the 2006/2007 Session.



Ritchie Buschow (President -Elect)

Ritchie Buschow is the Assistant Radiation Safety Officer/Laser Safety Officer for the US EPA, Office of Research and Development, RTP, NC

reporting to the Safety Health & Environmental Management Office. Recently, he was approved by the Board of Laser Safety to sit for the certification in laser safety exam which he hopes to do within the next year.

Jonathan Moore (Council Member)



Jonathan is currently the Associate Radiation Safety Officer at UNC Chapel Hill. Before coming to UNC, he worked as a Health Physicist at Wake Forest University School of Medicine and a

Radiation Safety Technician at Duke University Medical Center. He received a Master of Science degree from UNC Chapel Hill and a Bachelor's degree in Nuclear Engineering from NC State.

Would you be interested in learning about Liquid Scintillation Counters this Fall? If so contact me: **Ritchie Buschow 919-541-0550** or **buschow.ritchie@epa.gov**

Amy Orders (Secretary)

Amy Orders is the Radiation Safety Officer at North Carolina State University. Albeit a die-hard Tarheel Fan, in her capacity as Wolfpack RSO, she coordinates radiation related



activities for the University through research, emergency response, and outreach education. She holds a BS in Radiologic Science, a MS in Radiologic Science, and M.Ed. in Health Occupations Education. Outside of work, Amy enjoys outdoor activities with her husband and two small children.



FALL 2006 NCHPS MEETING ANNOUNCEMENT

The Fall 2006 meeting of the North Carolina Health Physics Society will be held November 2 and 3, 2006 at the Courtyard Marriott, Carolina Beach. The program committee is soliciting speakers and vendors for this meeting. National HPS President-Elect Kevin Nelson will speak on 'Medical Response to Radiation Incidents'.

If you are interested in presenting at the meeting or know of a speaker that would be interested in presenting, please contact me, Ritchie Buschow at 919-541-0550 or buschow.ritchie@epa.gov. Affiliate vendors should also contact me if you will be attending. Vendor space will be limited so please sign up early.

Regulatory Changes in Radiopharmacy By James Albright

The Radioactive Materials (RAM) Branch is now collaborating with the NC Board of Pharmacy (NCBOP) to conduct tandem radiopharmacy inspections. The RAM Branch is also working with the NCBOP on licensing issues with regard to training expectations for radiopharmacy technicians, commonly known as "dose-drawers."

Since the RAM Branch focuses on the safe use of material and not its pharmacological use a gap existed in the inspections process: Yes, the dose-drawers may be trained appropriately to use material but if they are mislabeling or misdrawing doses the resulting radiopharmaceutical may or may not meet the needs of the patient resulting in a dose that is not ALARA. For example, a bone dose mislabeled as a cardiac dose is an obvious problem that has occurred several times. A hypothetical case can be made that if this situation were not addressed, given human fallibility, the resulting dose may not be so benign.

By performing tandem inspections the NCBOP Inspectors are exposed to the radiopharmacy environment with an individual trained in radiation protection and the RAM Branch Inspectors can have more confidence that the pharmacological aspects of the inspection are well handled.

During license application amendments or renewals the RAM Branch may, at the NCBOP's discretion, forward parts of the licensee's application to the NCBOP for comment. This gives the NCBOP the opportunity to critique these training procedures before the RAM Branch approves the application.

The RAM Branch is also forwarding reports of misdraws and mislabels to the NCBOP for investigation, just like the NCBOP investigates nonradiological dispensing incidents.

The purpose of this interagency cooperation is to approach radiopharmacy licensing and the dispensation of radiopharmaceuticals in a holistic

comprehensive fashion to ensure better patient care and to ensure that doses to the patient and their care-givers due to the use of RAM is ALARA.

Thermo

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Thermo's Radiation Measurement and Protection division has supplied instrumentation and systems to the nuclear industry, DOE National Laboratories, national and international safeguards organizations, defense and law enforcement agencies. Radiation detection instrumentation and custom-designed shielding products from Thermo represent the most complete line of quality products and systems on the market today.

Thermo's experience and equipment portfolio uniquely positions us to deliver the critical equipment necessary to address the requirements of the 21st century. Contact David Nice, Southeastern Account Manager, at (864) 630-9703 or through email at david.nice@thermo.com with questions about how Thermo can provide a solution to your needs.

Membership Update

Brian Cripe

Please welcome:

Jason Mangum of Eastern Research Group

Eric Zack of UNC-CH

Paul Marshall of Ecology Service Inc.

Currently we have:

14 Affiliates

115 Members

2 Students

1 Science Teacher

For a total of 132 members



HEALTH PHYSICS SOCIETY NORTH CAROLINA CHAPTER MEMBERSHIP APPLICATION

<p>1. Complete the application below. If you are not a member of the Health Physics Society, signatures of two members in good standing of the chapter are required.</p> <p>2. New membership dues paid after September 1 will apply through the following year.</p> <p>Chapter Dues \$ 15.00 /year Student/Science Teacher Dues 5.00 /year Affiliate Dues 40.00 /year</p> <ul style="list-style-type: none"> • Make check payable to the North Carolina Health Physics Society. <p>Send the completed application and dues to the Membership Committee Chairperson:</p> <p style="text-align: center;">North Carolina Health Physics Society PO Box 20051 Raleigh, NC 27619-0051</p>	<p>Affiliate membership in the NCHPS is limited to organizations having a professional interest in the general field of radiation protection. This class of membership offers the following privileges to an organization:</p> <ul style="list-style-type: none"> • Acknowledgment in each issue of the Chapter Newsletter and in the Chapter Directory. • One year regular membership for an individual from the organization. • Receipt of all official Chapter mailings (including the Chapter Newsletter). • Access to and commercial use of the Chapter Membership Directory. • \$50.00 off normal exhibitor fees to display products/services at NCHPS chapter meetings.
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Name: _____

Address Line 1: _____

Address Line 2: _____

Address Line 3: _____

_____ - _____

City State Zip

Company/School: _____

Business Phone: (____) ____ - _____

FAX: (____) ____ - _____

Home Phone: (____) ____ - _____

EMAIL: _____

Education (institution, major field, degree, and date): _____

Are you a member of the National Health Physics Society?
 YES NO

Professional Certifications (CHP,CSP,CIH,etc.): _____

Applying for :

Chapter Membership{ }

Student Membership{ }

Science Teacher mailing list ...{ }

Affiliate Membership{ }

Signature & Date _____

Sponsor's Signature _____

Sponsor's Signature _____

<p>FOR CHAPTER USE ONLY:</p> <p>Application Received: _____</p> <p>Application Reviewed: _____</p> <p>Approved YES/ NO</p> <p>New Member Information packaged mailed: _____</p> <p>Database Updated: _____</p>	<p>EXECUTIVE COUNCIL APPROVAL (IF NOT HPS MEMBER)</p> <p>COUNCIL MEMBER _____</p> <p>COUNCIL MEMBER _____</p> <p>COUNCIL MEMBER _____</p> <p>COUNCIL MEMBER _____</p>
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NCHPS 2006 Budget Update

John McLamb for James Albright

The NCHPS is financially strong with \$33,664.51 in cash assets as of December 30, 2005. Although a \$1770.00 deficit was projected for 2005, the year ended with a surplus of \$2,960.94. Most of difference was realized due to lower than budgeted expenses for the science teacher workshop and student paper competition.

2005 Cash flow

• Membership dues	\$1,428.00
• Meeting vendor fees	\$6,980.00
• Meeting registration	\$1,590.00
• Interest income	<u>\$ 94.96</u>

Total Income \$10,592.96

Expenses:

• Meeting fees	\$7,120.35
• Print/mail newsletter	\$ 238.14
• NCHPS business	\$ 173.53
• Science teacher workshop	<u>\$ 100.00</u>

Total Expenses \$7,632.02

Below is the budget for 2006, which has a projected deficit of \$2,050.00. Most of the projected deficit is a result an increase in the cost of producing membership directories.

NCHPS 2006 Budget

Income	2006 Budget	Actual YTD
Membership dues	\$2,305.00	\$ 885.00
Meeting vendor fees	\$5,000.00	\$3,250.00
Meeting registration	\$2,400.00	\$2,065.00
Vendor Fee	\$5,000.00	\$ 0.00
Duke Energy Gift	\$ 500.00	\$ 0.00
NCDOR Refund	\$ 0.00	\$ 25.00
Interest income	<u>\$ 100.00</u>	<u>\$ 48.02</u>
Total Income	\$10,305.00	\$6273.02

Expenses	2006 Budget	Actual YTD
Meeting Fees	\$8,000.00	\$5534.68
Student Paper Competition	\$1,000.00	\$ 0.00
Print/ Mail Newsletter	\$ 350.00	\$ 137.92
NCHPS business	\$2,405.00	\$ 181.70
Science Teacher Workshop	<u>\$ 100.00</u>	<u>\$ 0.00</u>
Total Expenses	\$12,355.00	\$5854.30

NCHPS SPRING MEETING REVIEW

John McLamb, President Elect

The chapter had another incredible spring meeting in Asheville. The meeting, which was held on March 23rd and 24th, covered a large spectrum of health physics interests. We began and ended the technical presentations with discussions on training. Grant Mills kicked off the meeting with a talk on a postgraduate degree program offered by the Naval Postgraduate School. Greg Egan closed the meeting discussing Duke University's program to train medical first responders how to handle radiological incidents.



Regulatory issues were also a major part of the program this spring. Roger Sit and Lee Cox gave talks on the new increased security measure requirements for large quantities of radioactive material, while James Albright discussed regulatory changes to radio pharmacies.



There were talks on subjects ranging from CT imaging, gamma spectroscopy energy resolution and Duke Powers plan for a new reactor in Cherokee. Other talks included discussions of radiation safety at the Savannah River facility and the new Spallation Neutron Source Facility at Oak Ridge. There was even a discussion of epidemiology as it relates to cancer risk verses age at exposure.

I would like to thank all of the vendors, especially Julie Ginsler from Perkin Elmer Life Sciences who sponsored our Thursday night social. Without the support of our vendors these meetings would not be possible. Presentation slides from all of the talks from the spring meeting can be found at: <http://hpschapters.org/northcarolina/meetingspring2006.php3>

Science Teacher Workshop Update Talytha Moore

During the summer, we may be speaking at the Science Teacher Workshop at School of Science and Math in Durham. We were asked during the Science Teacher Workshop last November in Greensboro. The topics will include general radiation info and radon.

We are in the beginning stages of organizing the Science Teacher Workshop for this upcoming November. I have contacted Lisa Marshall with NC State School of Nuclear Engineering about sharing a booth. We would also like to offer a radiation course maybe 2-3 hours.

If you would like to volunteer, like to do a little presentation, assist at the booth, please contact me, Talytha, at: talytha.moore@ncmail.net



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Johnson instruments utilize the latest digital circuitry with microprocessors to auto range, integrate and condition the signal from several different probes. Johnson instruments are manufactured in our modern 55,000 ft² facility that utilizes the latest CNC machinery and QC testing to assure each Johnson instrument will perform as intended. Johnson products are distributed by Fisher Scientific, VWR International and directly from Johnson.

Our complete product line is available on our web site www.johnsonnuclear.com.
Contact: Mary Bittinger or Dick Landfried
304-645-6568 or e-mail: buyjohnson@msn.com

Executive Council – 2006/2007 Session

I. Elected Officials

Office	Name	Telephone	Mailing Address	E-mail Address	Elected
Past President	Gerald Wicks	919/515-4601 (W) 919/515-5115 (Fax)	NC State University 2119 Burlington Lab, Box 7909 Raleigh, NC 27695	wicks@eos.ncsu.edu	2004
President	John McLamb	919/541-4235 (W) 919/541-1893 (fax)	NIEHS/Rad Safety Office (F070) 111 T.W. Alexander Dr. RTP, NC 27709	Mclamb1@niehs.nih.gov	2005
President-elect	Ritchie Buschow	919/484-7524(H)	7 Kandes Ct. Durham, NC 27713	buschow.ritchie@epa.gov	2006
Secretary	Amy Orders	919/515-5208 (W) 919/513-2690 (fax)	NC State University 1150 Varsity Drive, Box 8007 Raleigh, NC 27695-8007	amy_orders@ncsu.edu	2006
Treasurer	James Albright	919/571-4141(W)	Div. of Rad. Protection 3825 Barrett Dr. Raleigh, NC 27609	james.albright@ncmail.net	2005
Council person	Roger Sit	919/962-5711(W)	1120 Estes Drive Extension Campus Box 1650 Chapel Hill, NC 27599-1650	rsit@unc.edu	2004
Council person	J. Marion Eaddy III	919/571-4141(W)	Div. of Rad. Protection 3825 Barrett Dr. Raleigh, NC 27609	marion.eaddy@ncmail.net	2005
Council person	Jonathan Moore	919/ 962-5713 (W)	1120 Estes Drive Extension Campus Box 1650 Chapel Hill, NC 27599-1650	jdmoore@ehs.unc.edu	2006

II. Standing Committees/Appointees

Committee	Chair	Telephone	Mailing address	E-mail Address
Program	{President elect}			
Public Info/ Education	Dale Dusenbury, Jr	919/571-4141 (W) 919/571-4148 (fax) 919/217-0989 (H)	Div. of Rad. Protection 3825 Barrett Dr. Raleigh, NC 27609	Dale.dusenbury@ncmail.net
Nominating	[Past President]			
Newsletter Editor	Giao Nguyen	919/668-3185 (W) 919/434-3766 (H)	2951-24 Springsweet Ln Raleigh, NC 27612	nguye019@mc.duke.edu
Membership	Brian Cripe	704/384-3500 (W) 704/316-1348 (fax) 704/867-3695 (H)	709 Woodhaven Lane Gastonia, NC 28056	brian@ncradcom.com
Public Issues	David Lee	919/791-4203 (W) 919/ 846-6321 (H)	8033 Wavendon Ct. Raleigh, NC 27615	David.Lee@ncmail.net
TOREV	Gary Parker	919/772-5673		gdparker@nc.rr.com
Student Paper	Vacant			

III. Adjunct Members/Appointees

Program	Chair	Telephone	Mailing Address	E-mail address
Science Teacher Workshop	Dale Dusenbury, Jr	919/571-4141 (W) 919/571-4148 (fax) 919/217-0989 (H)	Div. of Rad. Protection 3825 Barrett Dr. Raleigh, NC 27609	Dale.dusenbury@ncmail.net
Survey Meter Custodian	Bill Fitzgerald	919/541-3383 (W) 919/544-4323 (H)	NIEHS/Radiation Safety Office 111 T.W. Alexander Dr. Research Triangle Park, NC 27709	fitzger5@niehs.nih.gov
HPS/Chapter Liaison	Joseph Alvarez			jalvarez@auxier.com
Historian	Amy Orders	919/515-5208 (W) 919/513-2690 (fax)	NC State University 1150 Varsity Drive, Box 8007 Raleigh, NC 27695-8007	amy_orders@ncsu.edu

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919-570-6229

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Laurus System Inc.

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C: 843-991-5291

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Ludlum Measurements

Dwane Stevens
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Pulcir Inc.

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Philotechnics, Ltd

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Ecology Service Inc

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782 Dunshea Court
Kennesaw GA 30144
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Marc Menigo
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Oak Ridge, TN 37830
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NSSI

Kimberly Page
506 West Mohawk Drive
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(330) 863-0044

RSO, Inc.

Wendy Caulk
P.O. Box 1450
Laurel, MD 20725
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Newsletter Staff

If you have note-worthy information you would like to share about health physics and the North Carolina Chapter members, please contact the following individual:

Giao Nguyen: nguye019@mc.duke.edu

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www.nchps.org

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