



# NCHPS NEWSLETTER

June 2007

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 2007/2008 session

## Amy Orders (President-Elect)

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.



## Laura Pring (Secretary)

Laura Pring is a Radiation Safety Specialist for Carolinas Medical Center. In her current position at CMC, she works directly with the RSO to implement a large radiation safety program for Carolinas Health Care System, covering four hospitals and numerous satellite facilities. Laura has 26 years experience in radiology and radiation protection, including 9 years at Duke Energy's McGuire Nuclear Power Station as a Radiation Protection Specialist. She has been a member of the NCHPS since 2003 and has served on the Program Committee for the last two meetings. Recently she was appointed to a 3 year term on the Health Physics Society Program Committee and will be the 2009 HPS annual meeting Task Force Chair. Laura is a Registered Radiation Protection Technologist and is a 2008 ABHP exam candidate.



## Roger Sit (Council Member)

Roger is the Radiation Safety Officer for University of North Carolina and UNC Hospitals. Prior to this, he worked at Stanford Linear Accelerator Center for 13 years as a Health Physicist in various capacities. Roger is a certified by the ABHP. He is lucky to have a great staff at UNC Chapel Hill.



## Giao Nguyen (Treasurer)

Giao is a Radiation Safety Technician for Duke University Medical Center and was the former NCHPS newsletter editor. She is currently the newsletter editor for the Medical Physics section of the Health Physics Society. Giao holds a Bachelors and Masters degree from East Carolina University.



  
**Fall 2007 NCHPS Meeting  
Announcement!**  
  
**October 18-19  
Hawthorne Inn &  
Conference Center**  
  
**Winston Salem, NC**

## **NCHPS Spring 2007**

### **Meeting Review**

**Ritchie Buschow, President-Elect**

The North Carolina Health Physics Society held another great meeting on February 22 and 23, 2007 at the Omni Charlotte Hotel in Charlotte. Around seventy people were in attendance to listen to a number of health physics topics. The first day of the meeting focused mostly on presentations from Health Physicists employed in the electric utility industry while Friday's agenda revolved mostly around the medical health physics community. Speakers who presented on behalf of the nuclear power industry included Jay Tarzia (decommissioning project at Vermont Yankee), William Byrum (instrument calibration QA at nuclear facilities), and Jim Twiggs (ALARA consideration in nuclear pipe welding). Other topics during the first day included two presentations on the new OSL Technology in Radiation Dosimetry by Chris Passmore, a presentation by Alan Mabry regarding photon dose estimates from recycled uranium casks, and Jackson Ellis presenting an innovative approach to radon control involving the assistance of the nuclear power industry.

The Thursday evening dinner included a presentation by Dan Sprau on the recent incident surrounding Russian dissident Victor Litvinenko (who was poisoned with Po-210) and other uses of radiation. While not intentionally undermining the

seriousness of this recent event, Dr. Sprau's humorous presentation did provide some interesting facts regarding the radiochemistry of Po-210.

On Friday, Jim Gaiser started out the morning with a presentation on new emerging medical imaging techniques. Igor Aukusevich from the Duke University Center for Demographic Studies provided information on population models used to predict induced carcinogenesis from ionizing radiation. Ann Dean spoke on the current procedures for inspecting facilities registered in the state that provide tanning booth services. Robert Dixon from Wake Forest University gave a presentation on the recent success of the NCRP committee in removing various source constraints when designing the amount of shielding needed in order to reduce exposure to the general public in medical facilities. Stewart Bushong talked about the current efforts in implementing ALARA with medical imaging procedures.

The final three presentations on Friday were given by students who participated in the student paper competition sponsored each year by the Chapter. The student presenters were 1) Jacob Gersh (East Carolina University) who spoke on the transport of charged particles modeling through human bone tissue, 2) Amber Dailey (Francis Marion University) presenting data regarding the efficiency of counting alpha contamination on



Samual Brady. Winner of the student paper competition

air sample filters loaded with dust, and 3) Samuel Brady (Duke University) who presented on the calibration of MOSFET dosimetry used to estimate doses to experimental mice that undergo x-ray irradiation in research. Samuel Brady won the competition.

Warm thanks go to our vendors for whom without their continued support these meetings could not continue. I would also like to thank Ben Edwards for conducting the DOT/IATA refresher course held on Thursday morning before the meeting.

Presentations from the meeting can be found on the NCHPS website at

<http://www.hpschapters.org/northcarolina/meetingspring2007.php3>

## Science Teacher Workshop Dale Dusenbury

The Science Teacher's Workshop in November, 2006 has provided a number of contacts for the Radon Outreach program. As a result, the Radon Program has sent out 3000+ radon detection kits to members of the general public since the beginning of 2007. In addition, a number of schools have asked for radon test kits to do monitoring in their schools. Such monitoring efforts can be quite complex because EPA guidance mandates that detectors be placed in rooms that are in contact with soil and based on square footage. This can be a real challenge due to the logistics of placing the detectors and arranging to keep them undisturbed (after all, there may

be kids around). Talytha Moore and Felix Fong have been spearheading this effort as part of the Science Teachers Workshop.

Among the other public issues, the status of the nuclear power industry should be an important topic in the upcoming Science Teacher's Workshop later this year. The Nuclear Regulatory Commission's Regulatory Issues Conference that met from March 13-15, 2007 in Washington, DC brought together nuclear utilities, the NRC, the public and nuclear equipment vendors to discuss current activities and regulation in the nuclear industry. Based on the information from this meeting, North Carolina can expect nuclear utilities to apply for at least 2 new combined operating licenses (COL) during the coming years.

These combined operating license submissions, if approved, would allow North Carolina nuclear utilities to build and operate several more nuclear units to generate electricity. North Carolina nuclear utilities are also dealing with problems of spent reactor fuel storage by building Independent Spent Fuel Storage Installations (ISFSI) modules. This will reduce the need to store such material in existing reactor pools, and allow the fuel to be stored safely in large engineered concrete vaults. Such ISFSI sites are an NRC approved technology, and would be guarded by existing plant security forces to maintain their security. In short, North Carolina is positioning itself to be part of what the NRC calls a "Nuclear Renaissance".

## NCHPS Tentative 2006 Budget

Checking Balances:

Beginning (May 15, 2005): \$8,007.64

Ending (December 30, 2005): \$7,964.68

Savings Balances:

Beginning (May 15, 2005): \$25,644.44

Ending (December 30, 2005): \$25,699.83

Category	2005 Budget	2005 Actual	2006 Budget
<b>INCOME</b>			
Interest	75.00	94.96	100.00 <sup>‡</sup>
Membership	2,305.00	1,428.00	2,305.00
Registration	2,400.00	1,590.00	2,400.00
Class Registration	0.00	0.00	0.00
Vendor Fee	5,000.00	6,980.00	5,000.00
Duke Energy Gift	500.00	500.00	500.00
<b>TOTAL INCOME</b>	<b>10,280.00</b>	<b>10,592.96</b>	<b>10,305.00</b>
<b>EXPENSES</b>			
Meeting	8,000.00	7,120.35	8,000.00
NCHPS Business	1,100.00	173.53	2,305.00
Public Relations	0.00	0.00	0.00
Web Hosting	100.00	0.00	100.00
Newsletter	350.00	238.14	350.00
Student Papers	1,000.00	0.00	1,000.00
STW	1,000.00	100.00	1,000.00
HP Education Support	500.00	0.00	500.00
<b>TOTAL EXPENSES</b>	<b>12,050.00</b>	<b>7,632.02</b>	<b>12,050.00</b>
<b>OVERALL TOTAL</b>	<b>(1,770.00)</b>	<b>2960.94</b>	<b>(1745.00)</b>

<sup>‡</sup> Based upon additional income from the interest bearing checking account set up Nov, 2005

Credit has been approved for billing in the amount of \$3,000 at the Crowne Plaza Resort Asheville for the Spring '06 (March 2006) Meeting

**Affiliates of the North Carolina Chapter of the  
Health Physics Society**

<p><b>Protean Instruments Corporation</b></p> <p><b>Darrell Scoggins</b> 231 Sam Rayburn Pkwy Lenior City, TN 37771 865-717-3456</p>	<p><b>Thermo Electron</b></p> <p><b>David Nice</b> 303 Wingcup Way Simpsonville, SC 29680 Tel: (864)963-7996 Cell: (864)-630-9703</p>	<p><b>Bionomics Inc</b></p> <p><b>John McCormick</b> PO Box 817 Kingston, TN 37763 865-220-8501</p>	<p><b>Laurus System Inc.</b></p> <p><b>Laura Lynch</b> 8779 Autumn Hill Drive Ellicott City, MD 21043 (410) 465-5558</p>
<p><b>PerkinElmer Life Sciences</b></p> <p><b>Julie Ginsler</b> 218 Parkridge Drive Clayton, NC 27520 P: 919-553-4698 C: 919-522-6741</p>	<p><b>Wm B. Johnson &amp; Assoc</b></p> <p><b>Dick Landfried</b> PO Box 472 Ronceverte, WV 24970 (304) 645-6568</p>	<p><b>Ortec</b></p> <p><b>Marc Menigo</b> 801 South Illinois Ave. Oak Ridge, TN 37830 (770) 979-3957</p>	<p><b>Global Dosimetry Solutions</b></p> <p><b>Terry C. Moore</b> 1924 Falling Creek Circle Mt. Pleasant, SC 29464 P: 843-849-9093 C: 843-991-5291</p>
<p><b>Canberra Industries</b></p> <p><b>Ron Vermilye</b> 800 Research Parkway Meriden, CT 06450 800-243-3955</p>	<p><b>DEQ Technical Sales</b></p> <p><b>Ray McPhillips</b> 7767 Maida Vale Circle Powell, TN 37849 865-621-5123 (cell), 865-947-5123 (office)</p>	<p><b>Ludlum Measurements</b></p> <p><b>Dwane Stevens</b> PO Box 810 Sweetwater, TX 79566 (325)-235-5494 (800) 622-0828</p>	<p><b>Philotechnics, Ltd</b></p> <p><b>Annette Hansen</b> 201 Renovare Blvd. Oak Ridge, TN 37830 865-285-3009 direct 865-406-8106 cell</p>
<p><b>Ecology Service Inc</b></p> <p><b>Paul Marshall</b> 102200 Old Columbia Columbia, MC 21046 (410) 381-2600</p>	<p><b>RSO, Inc.</b></p> <p><b>Wendy Caulk</b> P.O. Box 1450 Laurel, MD 20725 888-723-5463</p>	<p><b>Landauer Inc</b></p> <p><b>Carl Milam</b> 782 Dunshea Court Kennesaw GA 30144 800-323-8830</p>	<p><b>F&amp;J Specialty Products, Inc.</b></p> <p><b>Frank Gavila</b> 404 Cypress Road Ocala, FL 34472 (352)680-1177 fax (352)680-1454 fandj@fjspecialty.com</p>

**New Members to the Chapter**

Lauren Daigle – North Carolina State University  
Kevin Nelson, Ph. D.- Mayo clinic Jacksonville  
Robert Wills – General Engineering Laboratories

**Executive Council – 2007/2008 Session**

**I. Elected Officials**

Office	Name	Telephone	Mailing Address	E-mail Address	Elected
Past 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	Ritchie Buschow	919/484-7524(H)	7 Kandes Ct. Durham, NC 27713	buschow.ritchie@epa.gov	2006
President-elect	Amy Orders	919/515-5208 (W) 919/513-2690 (fax)	NC State University 2620 Wolf Village Way, Box 8007 Raleigh, NC 27695-8007	amy_orders@ncsu.edu	2007
Secretary	Laura Pring	704/355-5376 (W)	Radiation Safety Office Carolinas Medical Center 1000 Blythe Blvd. Charlotte, NC 28203	Laura.pring@carolinashealthcare.org	2007
Treasurer	Giao Nguyen	919/668-3185 (W) 919/434-3766 (H)	7641 Astoria Place Raleigh, NC 27612	nguyen019@mc.duke.edu	2007
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**

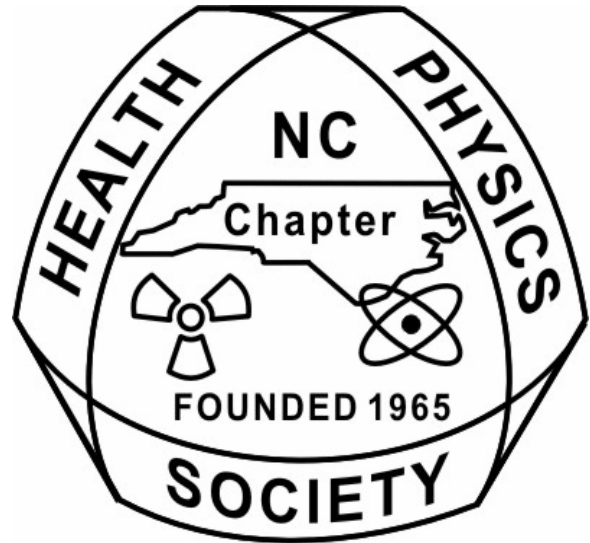
Committee	Chair	Telephone	Mailing address	E-mail Address
Program	{President elect}			
Public Info/ Education	Dale Dusenbury, Jr	919/571-4141 (W) 919/571-4148 (fax) 919/217-0989 (H)	Div. of Rad. Protection 3825 Barrett Dr. Raleigh, NC 27609	Dale.dusenbury@ncmail.net
Nominating	[Past President]			
Newsletter Editor	Lauren T Daigle	919/513-0988(W)	NC State University 2620 Wolf Village Way, Box 8007 Raleigh, NC 27695-8007	lauren_daigle@ncsu.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	Vacant			
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 (F070) 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 2620 Wolf Village Way Box 8007 Raleigh, NC 27695-8007	amy_orders@ncsu.edu

**Inside This Issue:**

Introductions of New Council	1
Spring Meeting Review	2
Science Teacher Workshop	3
Budget Report	3
Current Affiliates	4
New Members	4
Executive Council	5



Have information you want to add to the newsletter?  
Please contact Lauren Daigle  
513-0988  
lauren\_daigle@ncsu.edu

NCHPS  
PO Box 20051  
Raleigh, NC 27619-0051

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