

# NCCHPS

The Newsletter of the Northern California Chapter of the Health Physics Society  
March 2010



## ***The NCCHPS March 2010 Meeting...***

Thursday, March 18, 2010  
The Farmer Restaurant, Pleasanton  
6 pm - Social Hour  
7 pm - Dinner  
8 pm - Presentation

### **New Concepts in Radiological Emergency Planning**

**Abstract:** The presentation will describe the new Federal framework for radiological emergency planning, including the responsibilities of various agencies of the Federal government. The presentation discusses the considerations when deciding whether or not the public should evacuate or shelter-in-place following an RDD or IND event and how these scenarios differ from the familiar nuclear power plant release scenario.

### ***About the Speaker: Edward F. Maher, ScD, CHP, President-Elect Health Physics Society***

*Dr. Maher attended Lowell Technological Institute, Lowell, Massachusetts, where he earned a bachelor's of science in electrical engineering and was commissioned in the United States Air Force in 1971. He received a master's degree in biomedical engineering from Worcester Polytechnic Institute, Worcester, Massachusetts and entered active military service in 1973.*

*In 1985, Dr. Maher earned a doctor of science degree in radiological protection and health from the Harvard School of Public Health. His principle research areas were radon measurement and control of radon in residences, environmental aerosol physics, and biostatistics. Upon completion of his doctoral studies, he was assigned to the USAF Occupational and Environmental Health Laboratory, Brooks AFB, Texas to variety of positions that included: Chief, Nonionizing Radiation; Chief, Radioanalytical Services; Chief, Personnel Dosimetry; and Chief, Radiation Services Division. In these positions, Dr. Maher provided a wide range of health physics support services to worldwide USAF installations. These support services included: environmental, medical and occupational radiological protection consultation and field investigations; radioanalytical laboratory services; radiation dosimetry; radioactive source permitting and transportation safety; site characterization and remediation; and radiological accident contingency response planning and risk assessment.*

*In 1990, Dr. Maher was assigned to the Human Systems Center, Armstrong Laboratory, Brooks AFB, Texas. In this capacity, he was the overall director of comprehensive environmental and occupational health services support to worldwide USAF installations. The Division's specialty areas were air and water quality, medical, environmental, and occupational health physics; hazardous waste and material management; and environmental noise research. Dr. Maher retired from active military service on January 1, 1994 in the grade of colonel.*

*Following his military retirement, Dr. Maher joined Arthur D. Little, Inc., in Cambridge, Massachusetts as an Associate Director in Occupational Safety and Health, and Manager for the Radiation Policy and Technology Unit. In early 1996, Dr. Maher accepted the position as Director of the Environmental Laboratory for Yankee Atomic Electric Company. The laboratory provided ongoing environmental laboratory, remediation and consultative health physics services for commercial nuclear power, Department of Energy and Department of Defense clients. In 2001, Dr. Maher assumed the position of Manager, Environmental Health and Safety for Framatome-ANP in Marlborough, Massachusetts. In 2004, Dr. Maher joined Dade Moeller & Associates and is currently the Objective 3 Manager for the NIOSH Dose Reconstruction Project under the Energy Employees Occupational Illness Compensation Program Act (EEOICPA).*

*Dr. Maher was certified for comprehensive practice by the American Board of Health Physics (ABHP) in June 1986, and has since recertified in 1990, 1994, 1998, 2002 and 2006. Dr. Maher is a past Board Member of the ABHP and the Board Chairman in 2000. He served on the ABHP Panel of Examiners for the Part II Comprehensive Examination from 1989-1993, and was the Panel Chairperson in the 1992 exam year. He is a past President of the American Academy of Health Physics (AAHP) and the New England Chapter of the Health Physics Society (NECHPS). He is a Fellow of the Health Physics Society (HPS), a past Director and Secretary for the HPS and the Society's current President-Elect. Dr. Maher is also an adjunct faculty member at the Harvard School of Public Health (HSPH) and a faculty member at the HSPH Center for Continuing Professional Education.*

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## President's Column

Dear Chapter Members,

As spring comes around the corner (right?) I want to announce that our annual Science Teacher Workshop is set for Friday March 19th. While plans are underway and volunteers have begun to work the magic of making the workshop happen it's time to notice that we have been blessed by many years of wonderful workshops. Last year, many new individuals got to join in the fun as volunteers and teachers. Teachers from across northern California continue to be touched by your efforts. But, are YOU missing? If interested in participating in the Spring Science Teachers Workshop please contact any

board member. Also, we are looking for someone to lead this endeavor in the future. Mark Mitchell, our American Nuclear Society partner, has run this show for many years and is ready to hand over the baton. The steps to make the workshop happen are well defined and Mark is willing to assist in the transition. Again please contact any board member if interested in this rewarding endeavor.

Speaking of the teacher workshop and its role in communicating radiation science to the public, the HPS Midyear meeting topic was Radiation Risk Communication to the Public. There was the usual strong NCCHPS presence. To prove the point we had to ham it up in front of Gen Roessler the official conference photographer and our cell phone cameras to bring a little bit of the Albuquerque home.

*Best regards,  
Dawn Banghart,  
President, NCCHPS*



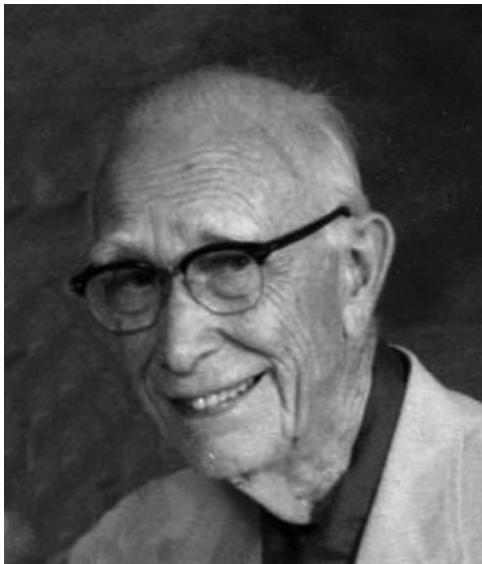
# NCCCHPS

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## ***2010 J. Newell Stannard Lecture Series***

The date for the 2010 Eighteenth Annual J. Newell Stannard Lecture Series has been set for April 28, 2010.



Once again, the Sierra Nevada and Northern California Chapters of the Health Physics Society will be holding the meeting at the Courtyard by Marriott in Sacramento, CA. The agenda is still being finalized but we anticipate a very educational and exciting program.

Similar to the way we organized recent meetings, after the Affiliate-sponsored lunch, we are scheduling a block of time to allow the attendees to view Affiliate displays and discuss their products. We will also be holding the Affiliate Raffle at the end of the day as we have done in past years.

We hope you can join us this year for what we believe will be a very stimulating day of informative talks. Over the past few years we have enjoyed excellent attendance (>70 attendees) and despite the current economic challenges, we are expecting as good a turn out in 2010 as we will continue to be local for many of our Sacramento-based members. In addition, we have scheduled the meeting on a Wednesday to avoid the state furlough days.

We look forward to seeing you in April.

**Linda Kroger, MS**  
**Radiation Safety Officer, University of California Davis Health System**

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## 2010 UC Berkeley ANS-NCS/NCCHPS Science Teacher Workshop - March 19, 2010

### From Mark Mitchell and Radoslav Radev

We have been blessed by many years of wonderful workshops. Last year, many new individuals got to join in the fun as volunteers and teachers. Teachers from across northern California continue to be touched by the efforts of NCCHPS.

We'd love to have your help if you are interested in participating in this year's Spring Science Teachers Workshop. Please mark your calendar for Friday, March 19, 2010 at UC Berkeley's Bechtel Engineering Conference Center Room 120ABC. We are looking forward to another outstanding day of teaching the teachers and providing positive community outreach on topics we care about it.

The agenda and organization is similar to last spring. I will work with participants on the details. Please RSVP at (925) 413-9202 or via email at [maximusmit@aol.com](mailto:maximusmit@aol.com) if you are able to assist.

#### Projected Agenda:

- 8:00 a.m. Registration - Coffee and Donuts
- 8:30 a.m. Welcome, introduction
- 9:00 a.m. Nuclear radiation basics
- 9:45 a.m. Cloud chamber experiment
- 10:30 a.m. ABC's of Radioactivity
- 11:15 a.m. Energy presentation
- 12:00 p.m. Lunch (at the Bechtel conference center)
- 1:00 bus pick up in front of Cory Hall
- 1:15 p.m. Tour to Advanced Light Source at Lawrence Berkeley National Laboratory
- 2:30 must be back on campus by this time
- 2:30 p.m. Geiger counter experiment
- 3:30 p.m. "Energy from Fusion: California's Role"
- 4:45 p.m. Evaluation and Conclusion

We can also use help setting up in the morning at 7:30 a.m., and again at after tours at 2:30 p.m.

*Thank you,*

*Mark Mitchell*

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**Eberline Services**  
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Eberline Services' Richmond California laboratory is the nations longest continuously running commercial radioanalytical laboratory with over 59 years of experience. Eberline Services Richmond is part of the nations largest radiochemistry laboratory network. We are recognized for our technical knowledge and ability to provide high precision, low detection radiological analyses. An array of counting techniques consisting of alpha spectroscopy, gamma spectroscopy, gas proportional counting, liquid scintillation, alpha scintillation, x-ray spectrometry, radon, and KPA (total U) allow the Richmond facility to achieve high precision results and high sensitivity. We have the capability of analyzing over 175 radionuclides on a variety of matrices including bioassay, environmental, hazardous waste, effluent, 10CFR61, REMP, and drinking water. Multi state certifications and accreditations by EPA, DOE, DOD, and nuclear reactor clients allow Eberline Services Richmond to perform radioanalytical work even under the most stringent regulatory requirements.

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## Moyer Fellowship Update



The Burton J. Moyer Memorial Fellowship was established by NCCHPS to honor Dr. Moyer and to encourage his ideals in the study of the safe use of radiation for the benefit of all people.

NCCHPS welcomes donations to the fellowship. The Moyer Fellow for 2010 will be chosen on or about April 15 this year.

NCCHPS thanks you for your support of the Moyer Fellowship.

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## Upcoming NCCHPS Meetings

**March 18, 2010**  
**The Farmer,**  
**Pleasanton**

**April 29, 2010**  
**J. Newell Stannard**  
**Lecture Series,**  
**Marriot Courtyard,**  
**Sacramento**

**May 20, 2010**  
**Affiliate Night**

## Visit NCCHPS on the Web:

<http://hpschapters.org/ncchps/>

Direct input for our next  
newsletter to:

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**tenbrook1@llnl.gov**  
**925-423-1470**

**NCCHPS**  
**c/o Warren TenBrook**  
**Lawrence Livermore**  
**National Laboratory**  
**P.O. Box 808, L-628**  
**Livermore, CA 94550**

## The Next NCCHPS Meeting!

Thursday, March 18, 2009

Time: 6:00 – 7:00 PM      social hour  
      7:00 – 8:00 PM      dinner  
      8:00 – 9:00 PM      speaker's presentation

The Farmer Restaurant at the Pleasanton Hotel  
855 Main St.  
Pleasanton, CA 94566  
Phone: 925.399.6690  
<http://www.pleasantonhotel.com/>

Parking: Main Street in Downtown Pleasanton and the hotel  
parking lot.

Cost:  
NCCHPS members                      \$30 (\$35 @ door)  
NCCHPS member's Spouses        \$35  
Students                                 \$10  
Non members                            \$40

Deadline:    Please register by March 12th.

Dinner menu:

Salad: Baby Spinach Salad with Blackberries, Melba Vinaigrette

Menu Choices:  
Pan Seared Salmon with Lemon Risotto  
Lemon Herb Roasted Airline Chicken  
Vegetarian Lasagna

Dessert: Fruit Cobbler

All Meals Served with: Fresh Seasonal Vegetables, coffee, and  
tea. Ice tea available upon request only.

<http://hpschapters.org/ncchps/dinner.php3>

**Only online registrations will be accepted. Contact  
Jesse Hendricks ONLY if you encounter problems  
with online registration: [jhendricks@berkeley.edu](mailto:jhendricks@berkeley.edu)**

## 2009-2010 NCCHPS Board Members:

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