

NCCHPS

Northern California Chapter-Health Physics Society
May 2012



The NCCHPS May 2012 Dinner Meeting

Thursday, May 17, 2012 – Yoshi's, Oakland

6 pm Social

7 pm Dinner

8 pm Presentation:

***Opportunities in the Field of Physics
and Health Physics***

Fran Dickens, NCCHPS President-Elect



Summary: The Faculty and Professor and Chair of the Department of Physics at East Carolina University (ECU) located in Greenville, NC invited Fran Dickens to speak at the commencement department ceremony on May 4, 2012 to the graduating Physics students. Fran will offer a preview of the Commencement Address, explaining and provide inspiration to the new graduates of physics on the various aspects and future opportunities in the field of Physics and Health Physics based on her experience and education.

ECU has had a MS program in Medical Physics for about 20 years and a PhD program in Biomedical Physics for over 10 years. ECU is in the process of starting a Health Physics track in their MS program, where Fran's background is particularly appropriate. ECU recently acquired a new 2 MeV electrostatic accelerator and has expanded their faculty with expertise in the area of radiation physics over the past decade, so there is great interest in radiation physics and related areas within the ECU Physics Department.

About the Speaker: Fran Dickens attended ECU from 1982 to 1986 and majored in Medical Physics and received a BS in Applied Physics in May 1986. Fran continued her education and received a Public Health Fellowship to attend the School of Public Health at the University of North Carolina in Chapel Hill from 1986-1988 majoring in Radiological Hygiene (Health Physics), receiving her MS in 1988. Fran worked as a radiation safety technician at a nuclear power plant, a medical hospital, and at the National Institute of Environmental Health Sciences while attending college. Fran has over 24 years of professional experience in radiation safety/health physics in areas supporting waste management, environmental compliance, nuclear weapons testing at the Nevada National Security Site (Formerly the Nevada Test Site), decommissioning and demolition of buildings in Oak Ridge supporting the Manhattan Project, nuclear pharmacy construction, radioactive materials application and licensing for Positron Emission Isotope production and distribution, cyclotron operations and registration, research laboratories, heart centers, hospitals, and medical schools. Fran is also currently the President-Elect of the Northern California Chapter of the Health Physics Society and works at Lawrence Livermore Laboratory supporting the Radiation Protection Functional Area.

News with historical perspective from the Burton Moyer Fellowship Fund Committee

The Burton J. Moyer Memorial Fellowship was established by the Northern California Chapter of the HPS to memorialize the late Burton J. Moyer and to encourage his ideals in the study of the safe use of radiation for the benefit of all people. The award consists of a stipend of \$8,000.

The Burton J. Moyer fellowship was first awarded in 1985. Moyer was Professor of Physics at the University of California, a noted researcher in high energy physics and is generally acknowledged to be “the father of accelerator health physics”. Original funding for the fellowship came from his family, his colleagues at UC Berkeley and at Lawrence Berkeley Lab and from our chapter. Several years later it became apparent that it would be mutually beneficial to coordinate the fellowship with the national Health Physics Society. Wade Patterson was the guiding light during the early days of the fellowship and he was able to negotiate an agreement that the HPS would take responsibility for screening and ranking the candidates (through the Academic and Education Committee) and HPS would provide matching funds to our chapter’s financial support of the fellowship. Our chapter would retain a voice in selecting the Moyer Fellow. Today, the HPS provides seven fellowships giving financial support to graduate students in Health Physics. The Moyer award is the most prestigious and lucrative of the HPS fellowships. Many chapter members have contributed their time, talent and money to the success of the Burton Moyer Fellowship award since its inception over 25 years ago. Special recognition must be given to the late Wade Patterson who was probably the most involved individual in creating this project.

NCCHPS Burton Moyer Fellowship Committee is comprised of a Committee Chair and two members who are tasked to manage the fund and its investments, to solicit donations and to represent NCCHPS in the selection process of the Moyer Fellowship award. Dr. Charles Schmidt has been the Chair of the Moyer Fellowship Committee since 2002 until this year and Bill Vermeere and Radoslav Radev has been members of the committee. For the past ten years, Charles has acted as our chapter representative to the HPS Academic and Education Committee for their selection of those student applicants who will be awarded HPS fellowships, with the highest ranking student receiving the Moyer Fellowship. He has been instrumental in managing and wisely investing Moyer funds and steering the investments through the turmoil of the current recession (2008-2012, is it over?). The assets of the Moyer Fund were moved from Morgan Stanley to Fidelity Investments in 2004 and several mutual funds were selected to hold and potentially grow these monies. Since that time, we have used \$30K to support fellows, received \$14K in chapter donations and realized \$35K in net investment gains to reach our present account value of **\$88,537 as of 4/23/12**.

Several years ago, Charles 'encouraged' his daughter, Linda, to prepare a biography of Professor Moyer and the history of the Moyer Fellowship. That document is found at the Moyer Scholarship link on our chapter web page. A copy of that brochure is sent to each new Moyer Fellow, and to their academic faculty advisor, to promote the personal and professional ideals held by Burton Moyer.

After Charles announced at the end of last year his decision to resign from the Committee after more than 10 years, I have accepted to step up and continue managing NCCHPS Moyer Fellowship and its investments. It is very big shoes to fit in and I am looking forward to this challenge. We are looking also for a willing volunteer to serve as a member of the NCCHPS Burton Moyer Fellowship Committee.

This spring I served as the NCCHPS representative to the HPS Academic and Education Committee (AEC) in the selection process of the candidates. I reviewed and ranked the top candidates as per the established criteria for the Moyer Graduate Fellowship. The NCCHPS recommendation for the top candidate was accepted by the HPS AEC and the Moyer Fellowship Award will be offered to this candidate. The name of the 2012 Moyer Fellowship recipient will be announced at the 57th Annual HPS meeting in Sacramento, CA.

DONATIONS: Over the past six years the average annual donation total has been \$2000. During the last two chapter years, however, the totals have been \$1425 and \$1200. We have received some larger and likely non-recurring gifts in the past, and it was encouraging to receive an unsolicited donation from the Sierra-Nevada Chapter. It would be nice if a larger number of individual chapter members could make at least a 'small' contribution. This might indicate that our chapter as a whole continues to support graduate study and education in health physics. In 2004, our chapter annual 50% contribution to the fellowship was \$3000. With a higher donation rate from our members and good market performance, we were able to increase that amount twice to first \$3500 and then to the current \$4000. Given the continuing economic uncertainty, it would not be prudent to expect that the annual growth of our funds will cover the NCCHPS yearly contribution to the Moyer Fellowship Award.

So, please consider even a small donation (\$10 is also OK) for the Moyer Fund. Checks payable to NCCHPS may be sent to our treasurer, with the notation "Moyer Fund" included.

Radoslav Radev, Chair, Burton Moyer Fellowship Committee



57th Annual Meeting of the Health Physics Society, Sacramento, California, Sunday 22 July - Thursday 26 July 2012;

Updated May 2012....
HPS Meeting Site: [57th Annual Meeting](#)

The primary conference hotel is the [Hyatt Regency Sacramento](#).

The back-up conference hotel is the [Sheraton Grand Hotel](#).



[Sacramento 365](#) - The Year-Round Source for Sacramento

Transportation Information: [SuperShuttle](#) is offering discounted transportation from the airport to downtown hotels. \$4 off the round-trip price.

Volunteers for Sacramento National HPS Meeting

The Sierra Nevada Chapter is the host for the annual meeting. The Local Arrangements Committee's work at the meeting extends Saturday July 21 through Thursday, July 26. If you plan to attend the meeting and want to help, send us an email and tell me what activity you are interested in. I will contact you after the preliminary program is released to see what sessions you want to attend and when you are available.

Bag Stuffing: Saturday July 21, 11 am to 1 pm. Lunch provided. Convention Center

PEP Proctor: Check off members who have enrolled and collect evaluations. Stay for the whole class. No handouts to pass out, they are provided electronically. 3 sets of 8 classes on Sunday 8am-4 pm. 5 each day: Mon-Wed, 12-2 pm. Need one proctor per class. The students run the AV for the classes.

CEL Proctor: Give out handouts and collect evaluations. Starts early, 7 am! Again, students run the AV.

T shirt and hat sales: Good at addition, subtraction and handling money\$. Outgoing and sales personality helpful. Sun-Thurs

Run & Walk: Wed. 6 am – 8:30am. Set up, clean up and 2 people to keep an eye on the timer. Capitol Park across from Hyatt.

LAC Room: Holding Down the Fort. Mostly hang out and answer questions or contact Floor managers or Secretariat to troubleshoot any problems. 4 hr shifts: AM and PM, Sun-Thurs

Marcia Hartman, Co-Chair diamonhartman@sbcglobal.net

Jim Case, Co-Chair james.case@ucdmc.ucdavis.edu



“TeamBest™ can provide you with your radiotherapy needs by offering a large variety of products, along with our unmatched customer service.

Our brachytherapy seeds and accessories are integral for any brachytherapy program, while our radiotherapy and diagnostic imaging devices help complete the essentials of any clinic. The MOSFET patient dose verification system will ease concerns for both the patient and physician over what the actual dose given was during either external beam radiation therapy, brachytherapy or diagnostic scans. Meanwhile, no department is complete without a full range of radiation dosimetry and QA equipment.

Best Medical International, Inc.
7643 Fullerton Road
Springfield, Virginia
22153 USA

richard.oswald@teambest.com
Phone: 949-212-7636

Handheld Radioactive Isotope Identification Device (RIID)

Detector Options:

- Sodium Iodide
- Lithium
- Lanthanum Bromide

Contact Robert Corsetti
800-234-7858 x250
<http://www.berkeley-nucleonics.com>



Eberline Services
2030 Wright Ave.
Richmond, CA 94804-3849
800/841-5487 Toll free
510/235-2633
510/235-0438 Fax

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.



**Hi-Q Environmental Products
Company**

7386 Trade St.
San Diego, CA 92121

Phone: 858.549.2820
Fax: 858.549.9657

Email: info@hi-q.net
<http://www.hi-q.net/>

HI-Q Environmental Products Company is an ISO 9001:2000 Certified Company who has been a leading manufacturer of Air Sampling Equipment, Systems & Accessories since 1973. Our product line includes:

- Continuous duty high & low volume air samplers,
- Air flow calibrators,
- Radio Iodine sampling cartridges,
- Collection filter paper,
- Combination filter holders,
- Complete stack/fume hood sampling systems and
- Outdoor TSP, PM-10, PM-2.5 & PUF ambient air samplers

Feel free to peruse our online catalog. If you do not see a system that completely meets your sampling needs, please contact our Engineering Department for assistance. Thank you for your interest in our air sampling products. For additional details, visit our website at www.hi-q.net.

The advertisement features a central image of various laser safety products including yellow-tinted safety glasses, blue-tinted safety glasses, a laser barrier, and a laser viewing window. The background is a gradient of colors from purple to green. The Kentek logo is in the top left, and the main headline is in the top right. A list of product categories is in the middle, and a descriptive paragraph is on the right. A website URL is in a black bar at the bottom.

KENTEK® has a solution...
"Laser Smart Products" for your laser safety concerns.

BARRIERS • EYEWEAR • EQUIPMENT

Kentek provides a full range of filter glass and polymer laser safety eyewear, laser barriers and curtains with power ratings up to 1200 W/cm², acrylic viewing windows from stock or custom cut to fit specialty applications, and laser accessories including beam traps and beam location tools. Kentek products have been offered to thousands of end-users in segments including Industrial, Government, Research, Education and Medical worldwide since 1983.

Visit Us at our Webstore: www.kenteklaserstore.com

LANDAUER® *Thinking Outside the Badge™*

David Miranker
Western Regional Sales Manager

2 Science Road, Glenwood, Illinois 60425-1586
Mobile: 760/274-3950 Facsimile: 708/755-7016
Email: dmiranker@landauerinc.com
www.landauerinc.com



Mirion Technologies Dosimetry Services Division brings detection into the digital age with instadose. This rugged dosimeter provides an instant read-out when connected to any computer with internet access. This breakthrough technology provides radiation workers in photon environments with a precise measurement of radiation dose and includes accurate long-term exposure tracking.

There is no need to send badges to a processing center, simplifying administration and reducing costs.

Instadose benefits for your facility include:

- Ability to report 1 mrem
- Pulse radiation response
- Unlimited reads for one low price
- NVLAP accredited
- NO badge collection or return for processing required



Order your device today! Call Mirion Technologies : 1-800-251-3331



MIRION
TECHNOLOGIES
Dosimetry Services
Division

**Seltech Electronic
Manufacturers
Representative Inc.**

**Clyde Makinson
(509) 943-5288
(888) 633-2340**

**clyde@owt.com
<http://www.owt.com/seltech>**

Seltech Inc is the sales organization representing a number of nuclear measurement manufacturers. Clyde Makinson in Richland Washington is an application-oriented salesman with many years of experience in the nuclear industry.

Seltech Represents:

- Ludlum Measurements
- Gamma Products – automatic sample changers, counting systems and shields
- HI-Q Environmental Products – air sampling equipments
- Lab Impex Systems – area and stack monitoring system
- XRF Corp – Hand Held Isotopic Identifier with CdTe detector
- Ordela Inc – alpha scintillation detector and alpha spectrometers
- TSA Systems – SNM monitors and mobile GPS survey systems.
- Bladewerx – alpha spectra, continuous air particulate monitors
- Shieldwerx - Polyethylene-Based Gamma & Neutron Shielding

For additional details, visit our website.


PHILOTECHNICS

Philotechnics, Ltd. is full-scope radiological services company headquartered in Oak Ridge, Tennessee with an additional licensed facility in San Diego, California. At the very core of our philosophy is our commitment to being the most responsive, broad-spectrum radiological services provider in the nation – dedicated to advising you on the most appropriate method to accomplish your objectives.

Our Services are provided through three primary stand-alone product lines:

- *Mixed and Radioactive Waste Brokerage Services* – to provide RCRA, TSCA, Asbestos and Radioactive Waste Services.
- *Decontamination & Decommissioning/Health Physics Services* – to support license termination and radiation safety management.
- *Fleet Services* – We are a private carrier licensed in 48 states.

Corporate Office
Philotechnics, Ltd.
201 Renovare Blvd.
Oak Ridge, TN 37830
Meghan Turvey
(865) 285-3064



California Office
Philotechnics, Ltd.
7384 Trade St.
San Diego, CA 92121
Robert Trimble
(858) 586-2580

www.philotechnics.com

» Join us at the Gaylord Opryland Resort & Convention Center in Nashville, TN

June 18-22, 2012 for one of the premier annual events in the nuclear industry.

SIGN-UP TODAY at:
www.canberra.com/events



A
CANBERRA

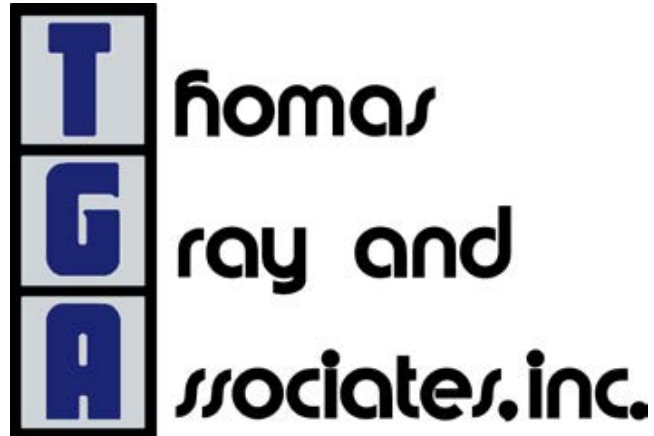
June 18-22, 2012

Nuclear Measurements Business Unit of AREVA – Measurement Solutions for Nuclear Safety and Security
For more information please visit: www.canberra.com

CANBERRA IS PART OF AREVA – WORLDWIDE LEADER IN CO₂ -FREE ENERGY.

California's only licensed radioactive waste broker/processor, Thomas Gray & Associates provides disposal brokerage, health physics, training and transportation services to the Western United States. To find out how we can provide you service, please contact us at (714) 997-8090 or on the internet at <http://www.tgainc.com>.

Thomas Gray & Associates, Inc.
1205 West Barkley Avenue, Orange, CA 92868
T: 714-997-8090 F: 714-997-3561
<http://www.tgainc.com>



ORTEC Post Accident Nuclear Solutions:

Food, Water, and Environmental Monitoring; Area and Surface Contamination; Bio Assay

From rapid screening of individuals who have potentially ingested radionuclides, through monitoring of the ground for fallout carried in a rain shower, we have a high performance solution. Food, water, soil, air, and human beings all may be effectively screened and monitored through the use of ORTEC instruments.

FoodGuard-1 NaI Food Screening System

- Rapid screening of foodstuffs, solid and liquid.
- Front line response by food producers, traders, import/export agencies, etc.

FoodGuard-2 High Resolution HPGe Gamma Spectroscopy System

- Accurately quantifies levels of radionuclides in food.
- Gamma emitting radionuclides quantified in Bq/g or Bq/L.
- Complies with required detection limits for clearance of food samples.

GammaScreen-8 Multi-Sample Gross Gamma Screening System

- Simple to use tool for first step screening operation.
- Rapid screening of urine samples for elevated presence of radioactivity.
- Provides critical information for Emergency Response Agencies.

Whole Body Counting Systems

- Measure body contents directly; does not rely on indirect methods (such as urinalysis).
- Measure insoluble radionuclides in the lungs.
- ORTEC Whole-Body Counters include stand-in, chair, bed, scanning bed, and steel room systems for lung burden.

Micro-Detective, Detective and Trans-SPEC Hand Held HPGe Spectrometers

- High resolution gamma spectrometers in an integrated package.
- No liquid refrigerant required.
- Battery operated.
- Multi-purpose instruments for contamination monitoring, scanning of humans, food and water sample counting, etc.

www.ortec-online.com



ORTEC®

Advanced Measurement Technology, 2036 Nevada City Hwy. PMB 316, Grass Valley, CA 95945
 Tel. 530.273.2100 • Fax 530.273.2131 • Mobile 925.864.7740 • dave.martinez@ametek.com

AMETEK



F&J SPECIALTY PRODUCTS, INC.

The Nucleus of Quality Air Monitoring Programs

Advanced Technology Instruments

- Correction of flow and volume to reference temperature and pressure
- Volume totalization to 4% accuracy
- Automatic Flow Control
- Auto shut off on time or volume
- Low operating and maintenance costs
- RS232 port
- Data storage options
- Digital display



| Digital Callibrators | Personal Air Samplers | High Volume Air Samplers | AC/DC Air Samplers | Continuous Duty Advanced Technology Air Sampling Systems |
|---|---|---|---|--|
|  |  |  |  |  |
| Contact | Tel: 352 680 1177 | Fax: 352 680 1454 | Email: fandj@fjspecialty.com | Web: www.fjspecialty.com |

ThermoFisher

SCIENTIFIC

The world leader in serving science

Thermo Fisher Scientific is continuing to advance the technology involved in the measurement of radiation, the monitoring of personnel, and in the areas of environmental and personal Dosimetry. The RadEye platform of portable, hand-held survey meters takes advantage of today's low-power, miniaturized components. Our most recent release, the RadEye-X, is a replacement for the older "shoe-box" style Survey Meter (including our own E600!). The RadEye-X series is compatible with all conventional probes of any manufacturer, from neutron REM-balls to the smallest of GM probes. This meter can be carried, worn on the wrist, or used with a lanyard. It offers data storage, a large digital display, an auto-ranging feature, multiple energy windows with dual displays, and many, many more features. Thermo also offers the very latest technology in Contamination Monitoring, recently having introduced the replacement for the PCM-2 – the new iPCM-12. This system is the culmination of features and benefits that the HPS has been asking for many years. A unique Rn-rejection algorithm, extremely large area of body coverage, and a contoured array of detectors are just a few of the advancements in the iPCM-12.

For additional information for any of your monitoring needs, please contact:

Denny Cannon
DOE and Nuclear Power Accounts Mgr.
[303-948-5001](tel:303-948-5001)
denny.cannon@thermofisher.com

Dave Frlan
Industrial and 1st Responder Accounts Mgr.
[253-875-9118](tel:253-875-9118)
david.frlan@thermofisher.com

| | | | | | | | | | | |
|--|--|----------------|--------------------|-----------------------|------|----------|------|-------------|------|---|
| <p><i>Upcoming NCCHPS Meetings...</i></p> <p>17 May 2012</p> <p>NCCHPS 4435 N. First Street #141 Livermore, CA 94550</p> <p>ncchps@gmail.com</p> <p>http://hpschapters.org/ncchps/</p> <p>Direct input for our next newsletter to:</p> <p>Warren TenBrook warren@tenbrook.org 925-423-1470</p> | <p><u>The Next NCCHPS Meeting!</u></p> <p>May 17, 2012 Yoshi's Oakland 510 Embarcadero West Jack London Square Oakland, CA 94607 Phone: 510.238.9200</p> <p>Menu: 1st Course - Sendai Miso Soup: tofu, wakame seaweed, negi and nameko mushroom; served individually & Kale & Sauteed Little Gem 'Caesar' kaiware, tamari oil, saikyo-miso caesar dressing</p> <p>2nd Course - Kakiage: tempura fritter with shrimp, onion, carrots, enoki mushrooms, kaiware radish & Smoked Wagyu Beef Carpaccio seared rare, grated daikon radish, sesame ponzu</p> <p>3rd Course - Miso-Marinated Wild Alaskan Salmon grilled salmon with housemade teriyaki & Grilled Mary's Farm Organic Chicken crushed herbs, spicy miso; housemade teriyaki</p> <p>Cost:</p> <table data-bbox="496 1100 1101 1251"> <tr> <td>NCCHPS members</td> <td>\$30 (\$35 @ door)</td> </tr> <tr> <td>NCCHPS member spouses</td> <td>\$35</td> </tr> <tr> <td>Students</td> <td>\$10</td> </tr> <tr> <td>Non-members</td> <td>\$40</td> </tr> </table> <p><u>Deadline:</u> Please register by May 12, 2012 <i>Note that cancellations may not be made after the RSVP deadline.</i></p> <p>http://hpschapters.org/ncchps/dinner.php3</p> <p>Only online registrations will be accepted. Contact Ibrahim Ozcan ONLY if you encounter problems with online registration: IOzcan@lbl.gov</p> | NCCHPS members | \$30 (\$35 @ door) | NCCHPS member spouses | \$35 | Students | \$10 | Non-members | \$40 | <p><u>2011-2012 NCCHPS Board Members:</u></p> <p>President Jack Topper (925) 423-8082 topper1@lbl.gov</p> <p>President-Elect Fran Dickens dickens3@lbl.gov 925-422-3813</p> <p>Past President Quang Le (510) 486-7862 qle@lbl.gov</p> <p>Secretary Naomi Reeves NEReves@lbl.gov (510)495-2202</p> <p>Member-at-Large Phillip D. Worley worley6@lbl.gov 925-422-7574</p> <p>Member-at-Large Ibrahim Ozcan (510) 486-2842 IOzcan@lbl.gov</p> <p>Treasurer Marcia Torres (650) 926-2764 mtorres@slac.stanford.edu</p> |
| NCCHPS members | \$30 (\$35 @ door) | | | | | | | | | |
| NCCHPS member spouses | \$35 | | | | | | | | | |
| Students | \$10 | | | | | | | | | |
| Non-members | \$40 | | | | | | | | | |