NCCHPS

Northern California Chapter-Health Physics Society
May 2016



The NCCHPS May 2016 Dinner Meeting

Thursday, May 19, 2016

Oakland Yacht Club

5:30 pm Social / 7 pm Dinner / 8 pm Affiliate Recognition and Technical Presentation



Lawrence Livermore National Laboratory Nuclear Counting Facility

Abstract: The Nuclear Counting Facility at Lawrence Livermore National Laboratory has been a unique asset and capability for over 40 years. Initially built in the late '60s and early '70s to support radiochemistry diagnostics for the Nuclear Test program, its mission now includes support for programs such as Environmental Radiochemistry, Stockpile Stewardship, Pre- and Post-detonation Nuclear Forensics, Rad/Nuc Emergency Response, and Nuclear Diagnostics for High Energy Physics. The facility's core capability lies with its 13 high-purity germanium gamma-ray spectrometers and, through an amalgamation of commercial hardware and in-house developed software, provides a variety of LLNL programs with the "life-blood" data they require to fulfill their national security mission.

(Continued on P. 2)



About the Speaker: Phil Torretto has been working in radiochemistry and radiation detection since obtaining his B.S. in Nuclear and Radiochemistry at San Jose State University in 1993. From 1992-1994 Phil broadened his experience in the field as a student intern at Lawrence Berkeley Laboratory in the actinide geochemistry group. Hired as staff scientist at LLNL in 1995, Phil has spent the last 21 years focused on radiochemistry and radiation detection. Beginning as a bench radioanalytical chemist in 1995 and culminating in the last 4 years as the Nuclear Counting Facility manager, Phil has recently become the group leader for LLNL's ES&H bioassay and radiological measurements laboratories.

KNOW YOUR EXPOSURE

REAL-TIME, ALL-DIGITAL RADIATION DETECTION

instant | active | robust | accurate | self-alarming | direct-reading







YSO + SiPM detectors | patented data acquisition MVT algorithm



2440 Camino Ramon, Suite #264 San Ramon, CA 94583 (925) 359-6908 contact@x-zlab.com

2016-2017 NCCHPS Board of Directors Election!

Please remember to cast your vote for in our 2016-2017 NCCHPS Board of Directors Election! The positions up for election are President-Elect, Treasurer, and Member-at-Large; with the nominees listed below in each category. You may access our electronic ballot at:

http://hpschapters.org/ncchps/elections/index.php.

If you did not receive voting instructions, or have any questions, please contact the NCCHPS Secretary, Maranda Cimeno, at mcimeno@slac.stanford.edu.

Voting will close at the end of the day on **Monday, May 9th**, with the results formally announced at our May 2016 NCCHPS Meeting.

The offices up for election and their nominees are:

President-Elect - Ibrahim Ozcan (LBNL)
Treasurer - Chad Hopponen (LLNL)
Member-at-Large - Daniel Hibbing (UCB); Paul Swearingen (Genetech)



SAM 945 ISOTOPE IDENTIFIER



- ALARA-Remotely monitor & Control the 945
- Real-Time Background Correction
- Industry Largest Internal Detector
- Full Analysis via Wireless Communication
- Network using N42.42 Data Transmission

News from Burton J. Moyer Memorial Fellowship Fund Committee

The Burton J. Moyer Memorial Fellowship was established by NCCHPS and supports a full-time entering or continuing student enrolled in bona fide U.S. graduate programs in health physics or a closely related field. The Burton J. Moyer Memorial Fellowship (BJMMF) has been continuously awarded since 1985. A list of all recipients of the Burton J. Moyer Memorial Fellowship since its first award is available at the NCCHPS webpage under the "Moyer Fellowship" link.

The current value of Burton J. Moyer Fund investments is \$118,471.82 as of April 12, 2016. Moyer Fellowship Fund money are invested into 7 Fidelity mutual funds and one money market account. The Burton J. Moyer Fund is governed by NCCHPS Bylaws and is devoted exclusively for a fellowship for full-time



graduate students in health physics. The fund is separate from the NCCHPS operational funds.

Our chapter contributes \$5,000 annually to the Burton J. Moyer Memorial Fellowship. HPS matches our contribution thus maintaining Burton J. Moyer Memorial Fellowship the most prestigious and most generous (\$10,000) Fellowship in health physics. We hope that the Fellowship will attract more high quality students to the profession of health physics.

NCCHPS actively participates in the selection of the Burton J. Moyer Memorial Fellowship Award recipient. NCCHPS's Moyer Fellowship Committee receives from HPS Academic and Education Committee (AEC) the top 3 candidates for HPS scholarships. We review and rank the candidates according to established criteria and recommend the recipient of the Burton J. Moyer Memorial Fellowship Award. NCCHPS members interested in participating in candidates review and ranking are welcomed.

DONATIONS:

Consider a small donation (\$10-\$50 is OK) for the Burton J. Moyer Memorial Fund. The donations are tax deductible.

Checks payable to NCCHPS may be sent to our treasurer, with the notation "For the Moyer Fund" or you can contribute when you pay for your dinner meeting with one combined check. You may indicate if you wish your donation to remain anonymous.

Radoslav Radev

Chairperson, NCCHPS Burton Moyer Fellowship Committee





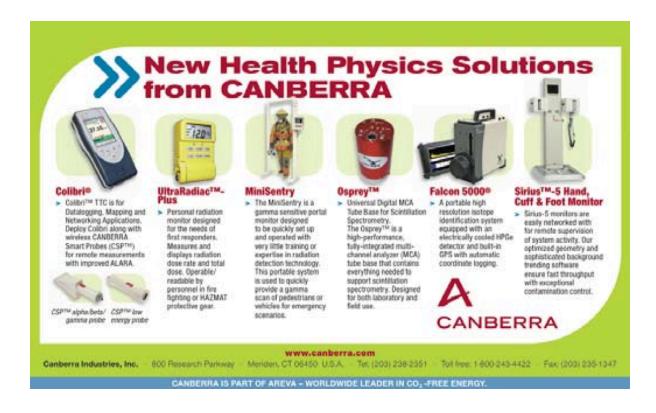
EXPERIENCE & EXPERTISE

Hidex AMG

Specialists in Liquid Scintillation Counters, Gamma Counters

and Radiation Monitors Hidex Triathler Hidex Triathler

P: 813-626-6848 • solutions@lablogic.com • www.lablogic.com



Join us at the The Hyatt Regency in Scottsdale, AZ on June 20-24, 2016 the Canberra Users Group Meeting - one of the premier annual events in the nuclear industry.



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.

Seltech

Electronic Manufacturers Representative Inc.

Clyde Makinson (509) 943-5288 (888) 633-2340 clyde@owt.com 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
- Lab Impex Systems area and stack monitoring system

For additional details, visit our website:

http://www.owt.com/seltech

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 our 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



Thermo Fisher

The world leader in serving science

Thermo Fisher Scientific is continuing to advance instrumentation used in the measurement of radiation. These advancements are in the areas of personnel contamination, dosimetry, and hand-held survey instruments.

The **iPCM-12** is a direct replacement for the PCM-2, however it expands the capabilities in areas of body coverage, background reduction using a unique proportional detector design, and a unique Rn-rejection algorithm.

The **Thermo-Harshaw TLD** products (readers and materials) are the state of the art for passive monitoring using TLD. The **EPN-Mk2** and **EPD-N2**(gamma neutron) are the active dosimeters of choice at virtually all DOE and DOD sites.

The **RadEye-"X**" series has already been selected by many DOE National Labs as a superior replacement for the older box-style analog meters, including our own E600. These labs are realizing not only the cost savings advantages of the RadEye-X, but also the simplicity and robustness that has been designed into a sophisticated digital meter that weighs approx 4 oz. and "talks" to all of your existing probes.

Justin Kung 310-418-7281

 ${\it Justin.kung} @ thermof is her.com$

http://www.thermoscientific.com/en/products/radiation-measurement-security.html



Know Dose with instadose™

With the *instadose*+ dosimeter you can view dose exposure from your smart phone, tablet, or PC at anytime.

As part of your radiation monitoring program you can:

- Track & lower dose for high risk employees
- · Increase compliance
- · Capture dose reads with smart phones, tablets, or PCs
- · Eliminate the badge collection process
- Define read intervals for dose trending
- · Receive e-mail notification of exceeded dose levels

Mirion Technologies is the first name in dosimetry innovation.

Add this technologically advanced badge to your dosimetry program today!

Call: 800.251.3331 or visit us online: www.mirion.com



Upcoming NCCHPS Meetings...

May 19, 2016 Affiliate Night

Mailing Address: NCCHPS 4435 First Street #141 Livermore, CA 94550

Email:

ncchps@gmail.com

Website:

http://hpschapters.org/ncchps/

Newsletter Editor: Warren TenBrook warren@tenbrook.org (925) 423-1470

Affiliate Liason: Nelson Chiu

ncchpsaffiliatecontact@gmail.com (414) 559-5586

The Next NCCHPS Meeting!

Affiliate Night
Thursday, May 19, 2016
5:30 pm no-host meet & greet
7:00 pm buffet dinner
8:00 pm announcements, presentation, and affiliate appreciation.

Oakland Yacht Club 1101 Pacific Marina Alameda, CA 94501 (510) 522-6868

The menu is:
Caesar Salad
Bread
Garlic Mashed Potatoes
Seasonal Vegetables
Flounder Fillets
Chicken Piccata
Dessert, coffee and tea
NOTE: If you prefer a vegetarian entrée,
please indicate on the reservation form.

Register by Monday, May 9, 2016 at: http://hpschapters.org/ncchps/dinner.php3

NCCHPS members \$30 (\$35 @ door) NCCHPS guests \$35 Students \$10 Non-members \$40

Please register by Midnight on May 9, 2016. Only online registrations accepted.

Contact Craig Maxwell (<u>craig.maxwell56@outlook.com</u>) ONLY if you encounter difficulties registering online.

Please note that in order to avoid unnecessary costs to the Chapter, you may be charged for no-shows. Cancellations may not be made after the RSVP deadline. 2015-2016 NCCHPS Board Members:

President Greg Jones jones88@llnl.gov (925) 423-9875

President-Elect Lydia Tai <u>Tai4@llnl.gov</u> (925) 422-0475

Past President Jon Dillon dillon10@llnl.gov (925) 423-6167

Secretary
Maranda Cimeno
mcimeno@slac.stanford.edu
(650) 926-7978

Treasurer
Melissa Mannion
MCMannion@lbl.gov
(510) 486-4423

Member-at-Large Claire Vandevoorde cvandevoorde@illumina.com (650) 293-7329

Member-at-Large Craig Maxwell Craig.maxwell56@outlook.com (415) 264-2983