



NCCHPS

Thursday September 28, 2006

@ Francesco's in Oakland

6 pm-Social Hour
7 pm-Dinner
8 pm-Presentation



Mark Your Calendars!

The 2006-2007 NCCHPS technical meeting dates are listed below!

September 28, 2006

Francesco's in Oakland

November 9, 2006

Scotts Seafood in Oakland

January 18, 2007

TBD

March 1, 2007

TBD

April 12, 2007

TBD

May 17, 2007

Hs Lordship's in Berkeley

Speakers: Dr. Tore Straume, Chief Life Scientist
NASA Ames Research Center

Title: "Latest Dosimetry Study on Hiroshima"

Abstract: Earlier this year, the U.S. Department of Energy conferred its Special Achievement Award upon Straume. John Spitaleri Shaw, the Assistant Secretary for Environment, Safety, and Health praised Straume's contribution to a landmark international study that reassessed radiation levels in the Japanese cities destroyed by atomic bombs at the end of World War II.

The study was a joint effort of U.S., Japanese, and German experts in radiation dosimetry, a field that seeks to accurately measure radiation doses and to define what is a safe radiation dose for humans. The results of the neutron measurements made by Straume and his team were incorporated into a new system for estimating radiation doses in Hiroshima and Nagasaki, known as DS02 (for Dosimetry System 2002).

Straume was asked to lead the U.S. effort to validate the neutrons emitted from the A-bombs and the levels that irradiated the survivors in 1945. In the early nineties, Straume was head of Dosimetry and Exposure Assessment at Livermore, and had made a name for himself devising new and better ways of accurately measuring traces of decades-prior neutron interactions in durable materials such as stone or metal, materials which stand a good chance of surviving an actual blast.

By analyzing high purity copper samples, such as copper roofs, gutters, even lightning rods, taken from buildings in Hiroshima after the blast – and which had been carefully preserved by the Japanese since the war – the scientists were able to quantify traces of a nickel isotope produced when fast neutrons interacted with the copper atoms in the metal.

The team's exhaustive two-volume text on their innovative methodology and techniques – with Straume as the lead author on two neutron measurement chapters – established the new benchmark for dosimetry. The research is a "tour de force experimentally," says Warren K. Sinclair, past president of the National Council on Radiation Protection and Measurements and presently president emeritus.

"(The study) is viewed as the authoritative work in radiation measurement," says Ames Life Sciences Division head Dr. Russell Kerschmann.

The team's results will be incorporated into new guidelines for risk estimates for radiation exposure and in fields such as cancer treatment and post-9/11 emergency preparedness. They will also be used in standards for space travel, as interstellar radiation will continue to be a significant obstacle to human exploration of space.

About the Speaker: Dr. Tore Straume, Chief Scientist, Life Sciences Division, and Lead Radiation Scientist, NASA Ames Research Center, Moffett Field, CA.

Presently, as Ames' lead scientist for Life Sciences, Dr. Straume is concerned with radiation levels that future space explorers may be subjected to on NASA missions to other planetary bodies. His groundbreaking work on terrestrial radiation will lay the foundation for similar studies in space.

His research areas include radiation measurements and related technologies; radiation biodosimetry; radiobiology; and inventor of biotechnologies related to measurement technologies. Dr. Straume is inventor of seven patents, four are currently licensed to companies.

The Special Achievement Award, U.S. Department of Energy (February 2006) was presented to Dr. Straume by John Spitaleri Shaw, Assistant Secretary for Environment, Safety, &Health on "behalf of the Department of Energy and the U.S. Government recognizing the importance of Dr. Straume's efforts in the development of the dosimetry system in Hiroshima and Nagasaki, which are essential to our understanding of health effects of radiation exposure".

Secretary Shaw lauded Straume's work as "essential to our understanding of the health effects of radiation exposure". The health-effects information obtained from the studies of Hiroshima and Nagasaki serves as the basis for treating survivors exposed to radiation and for estimating radiation risk worldwide, including those used by NASA for human spaceflight.

In addition to his space radiation work, Straume is presently preparing a paper on the effects of the Chernobyl nuclear power plant disaster in the Ukraine. Like the Hiroshima research, this will involve reassessing historical data, coming up with new, more accurate ways of measuring radiation, and then gleaming innovative science – and hope for survivors – from past tragedies.

NCCHPS



NCCHPS President's Column

We look forward to an exciting and successful new Chapter year. We are pleased to welcome three new members aboard: John Pasinosky (President Elect), Quang Le (Treasurer) and Jack Tropper (Member-At-Large). The contact information for the 2006-2007 NCCHPS Board is on the chapter's web site (<http://hpschapters.org/ncchps/contacts.php3>). A special thanks go to John Ahlquist (Past President 2005-2006), Rao Gorparthi (Treasurer 2004-2006) and Jim Tripodes (member-At-Large 2004-2006) who did excellent job and volunteered many hours serving on the Board.

As many of you are aware, our newsletter editor Rachel Zeman is going to a graduate school this September. No awards can express our thanks to Rachel for her outstanding job as a NCCHPS newsletter editor. We will miss Rachel very much and hope she will return with the degree soon. Warren Tenbrook from LLNL has accepted the newsletter editor position and is being coached by Rachel. Dave Myers efforts are greatly appreciated in developing a great NCCHPS history poster and displaying it at the 51st Annual HPS meeting in Providence, RI. Our poster was among the best. Many kudos for John Ahlquist and Linnea Wahl who lead NCCHPS successful bid for 2008 midyear HPS meeting in Oakland.

The 2008 midyear HPS meeting "Radiation Generating Devices" and the Professional Development School (formerly the Summer School) will be held in conjunction for the first time in January 2008 in Oakland. Please check the NCCHPS website for the 2008 midyear meeting (<http://hpschapters.org/ncchps/>). We are looking for energetic volunteers for the Local Arrangements Committee for the midyear meeting. Please contact Kathleen Dinnel-Jones (dinneljones1@llnl.gov). The Professional Development School "Topics in Accelerator Health Physics" is organized by the HPS Accelerator Section. Please contact Linnea Wahl (email: LEWahl@lbl.gov).

Jim Tripodes is leading the reorganization of the chapters committees in line of the new HPS committee structure. Please contact Jim (tripodes2@llnl.gov) if you are interested in serving on any chapter committee. The list of the current chapter committees and their members is listed on our web site (<http://hpschapters.org/ncchps/committees.php3>).

My goals for the coming 2006-2007 year are to continue to steer NCCHPS as an active and beneficial to its members and the community organization, support the 2008 midyear meeting in Oakland, continue to sponsor the dinner meetings for our members and increase dinner meetings attendance, increase the number of the Affiliate members and improve the chapter finances, initiate storing NCCHPS records in electronic form, support the Burton Moyers scholarship and support the initiatives from the NCCHPS members.

I hope that you all can join us on September 28th at Francesco's restaurant in Oakland to hear Dr. Tore Straume on the latest dosimetry studies on Hiroshima.

Let us know how the board can serve you better. I look forward to hearing from you.

Radoslav Radev
President, NCCHPS

2006-2007 NCCHPS Board Members:

President
Radoslav Radev
925-422-3044
radev1@llnl.gov

President-Elect
John Pasinosky
650-8143954
john@pasinosky.com

Past-President
Nisy Ipe
650-631-1916
nisy@comcast.net

Secretary
Melissa Mannion
510-235-2633
mmannion@eberlineservices.com

Treasurer
Quang Le
925-422-7543
le22@llnl.gov

Member-At-Large
Jack Topper
408-842-2700
jack.topper@radetco.com

Member-At-Large
Todd Sundsmo
925-423-7291
sundsmo2@llnl.gov

Would you like to take an active role in NCCHPS? We're currently looking for volunteers to take on exciting tasks providing backup support for the Newsletter Editor, Website Administrator, and other functional positions within NCCHPS! If you're interested please contact our Members-At-Large Todd Sundsmo and Jack Topper.

NCCHPS



"Summer" School in January

When is a summer school not in the summer? When it's the Health Physics Society's 2008 professional development school! Formerly called the HPS summer school, in 2008 this learning opportunity will be held in late January. It will immediately follow the 2008 midyear meeting in Oakland.

The topic of the 2008 midyear meeting will be "Radiation-Generating Devices," and the subsequent professional development school will follow along those lines. Both events are being sponsored jointly by the Northern California Chapter and the Accelerator Section of the HPS.

The school's academic deans, Vashek Vylet of Duke University and Don Cossairt of Fermilab, are busy developing the school's schedule of courses. Their goal is to provide a varied curriculum that appeals to the same folks who will attend the midyear meeting, and maybe a few more.

The administrative dean, Linnea Wahl of Lawrence Berkeley Lab, is working on the local arrangements for the school. The current plan is to hold the school at the Oakland Marriott, the same venue as the midyear meeting, to cut down on travel costs and make the school as attractive as possible to the midyear meeting goers.

The tentative dates for the school are January 31 through February 2, 2008. But "tentative" is the operative word here. Since this is a new twist on an old favorite, anything could happen! Stay tuned for late-breaking news as the 2008 professional development school takes shape.

FINANCIAL REPORT FOR THE MOYER FELLOWSHIP FUND

(Charles Schmidt, Julia Ryan and Bill Vermeere)

The assets of the Moyer Fund are kept separately from those of the chapter. All donations to the Fund are deposited into our investment account with Fidelity Investments, and our support for the fellowship (\$3500 per year) is withdrawn from that account. We are currently invested in seven Fidelity equity mutual funds, a money market fund and a bank certificate of deposit.

Our investment results have been gratifying over the past several years. This has mitigated the negative cash flow of total donations minus fellowship cost, which totaled a loss of about \$3000 over the past two chapter years. The investment gains have enabled our total assets to grow during this time, despite the cash flow losses. However a well known investor caveat is "Past performance is no guarantee of future results." Continued financial support from the chapter membership is encouraged, and in fact necessary, if we want the fellowship to reflect the increasing costs of education, and to survive the inevitable downturns in investment value. The September meeting is your first chance this year to support the fellowship. Bring your checks, payable to NCCHPS, when you come to the dinner meeting! (How much to give? No amount is too small.)

For the calendar year 2006, Year-To-Date, our financial accounting is:

Balance, 12/31/2005	\$81,000.
Donations, 2006 YTD	+ \$1,705
2006 Fellowship	- \$3,500

	\$79,205.
Investment Gain, 2006 YTD	\$4,035.

Total Assets, 8/17/06	\$83,240

Our holdings with Fidelity Investments as of August 17, 2006 are as follows:

Bank CD, 4.85%, 3/16/07	\$12,000.
Money market	\$1,183.
Balanced Fund	\$9,458.
Contrafund	\$9,998.
Capital Appreciation	\$9,017.
Diversified International	\$12,803
Equity Income	\$9,348.
Export and Multinational	\$9,746.
Low Priced Stock	\$9,688.



SAFETY.
○ | ○ | ○

PERSONNEL DOSIMETRY SERVICES PROVIDE PEACE OF MIND FOR YOU AND YOUR EMPLOYEES

Occupational exposure to ionizing radiation can occur in a range of industries including medical institutions, educational and research establishments, and nuclear power facilities. Radiation Detection Company (RDC) can help you assess risk levels appropriately and implement the best dosimetry monitoring system to meet the requirements of your radiation safety program.

QUALITY.
○ | ○ | ○

A FULL RANGE OF DOSIMETRY PRODUCTS AND SERVICES DESIGNED TO MEET ALL YOUR RADIATION DETECTION NEEDS

In addition to personnel dosimetry products, RDC offers a full suite of services designed to meet state and federal regulatory standards including Radiation Instrument Calibration and Sealed Source Wipe Test Analysis.

VALUE.
○ | ○ | ○

COMMITMENT TO PROVIDING CUSTOMERS THE BEST VALUE, QUALITY AND SERVICE

Radiation Detection Company has provided personnel radiation monitoring services for over half a century and is recognized for quality and service in the industry. Full service dosimetry subscriptions include easy to read dose reports, 24-hour internet-based account management, flexible monitoring options, and access to personalized customer service 5 days a week between 7:00AM and 4:00PM PST. Our policy of no hidden fees makes RDC the easy choice for all your radiation monitoring services.

For more information visit www.radetco.com
To place an order call Sales at 1-800-250-3314

A Special Thanks to Our September Dinner Meeting Sponsors!



Canberra Industries, Inc.
800 Research Parkway
Meriden, CT 06450

Jim Barstow
(925) 945-7875(W)
(925) 955-1658(F)
Jbarstow@canberra.com
www.canberra.com

CANBERRA, an AREVA Company, is the worldwide leader in nuclear measurements – our core competency. With over 40 years of experience in this field, we bring solutions to our customers not just products or services.

The solutions we offer are: Services, Support, Project Management and Expertise in the Nuclear Measurements Field. The products we offer include: Analytical products (mid-resolution and high-resolution detectors, multichannel analyzers, counting devices, spectroscopy software, DB); Health Physics and Environmental Monitoring products and; Products used for Non Destructive and Waste Assay Applications.

The key to our success lies in our ability to identify the right customers and understand their needs, in order to bring them value-adding and innovative solutions. In addition, we strive to meet all of the commitments that we make to our customers.

NEW from CANBERRA...

Cryo-Cycle™

A "hybrid" cryostat having an LN2 reservoir and a self contained cryo cooler that condenses the boil-off gas thereby maintaining the LN2 supply indefinitely. In case of power failure or equipment problems, the reserve LN2 provides up to 5 days of cooling.



Falcon

A portable high resolution isotope identification system equipped with an electrically cooled HPGe detector and built-in GPS with automatic coordinate logging.



InSpector 1000™ with LaBr Probe

The new LaBr probe for the CANBERRA InSpector 1000™ provides spectrum resolution better than NaI by a factor of two.



Lynx™

A revolutionary digital signal analyzer for ALL spectroscopy applications. This new analyzer will support virtually all detectors used in gamma, x-ray and alpha spectroscopy with up to 32K channels of spectral memory.



NCCHPS



2007 Midyear Topical Meeting Decontamination, Decommissioning, and Environmental Cleanup

January 21 - 24, 2007, Knoxville, TN

The East Tennessee Chapter of Health Physics Society is pleased to hold the 2007 Midyear Meeting!
Please come join us. For more information, check out our website:

<http://www.hpschapters.org/etchps/2007MY.html>

NEW JOB!!!!

St. Jude Children's Research Hospital is an internationally renowned pediatric cancer center dedicated to the research and treatment of childhood catastrophic diseases. The institution strongly supports the department of Environmental Health and Safety (EH&S) efforts to provide a safe and healthy environment for its employees, patients and visitors. The EH&S department is currently seeking a Radiation Safety Officer (RSO) to join in this mission.

Position: The RSO will be responsible for administering a Radiation Safety Program that includes: maintaining the research and medical licenses and certified registrations in compliance with the State of Tennessee regulations; providing periodic training of clinical and laboratory personnel; supervision of Radiation Safety technicians; maintaining an ALARA program; and performing clinical and laboratory radiation risk assessments. The Radiation Safety Laboratory is equipped with the state-of-the-art radiation instrumentation needed to support the Program. Continued expansion of St. Jude's cutting edge technology will require EH&S support of a research cyclotron (2007) and a proton accelerator (2008).

Qualifications: Master's degree in health physics, radiological physics or related scientific discipline required. PhD preferred. Board eligibility by the American Board of Health Physics preferred. Two (2) years experience in a medical/research Radiation Safety Program required. Experience must include knowledge of federal and state regulations and management of a comprehensive license required.

St. Jude offers a competitive salary commensurate with qualifications and experience, and an excellent benefits package is provided. For more information contact:

Jim Gaut, Ph.D.
Director, Environmental Health and Safety
St. Jude Children's Research Hospital
332 N. Lauderdale St. Mail Stop 730
Memphis, TN 38105
Tel. No. (901) 495-5191

Please apply online at:
www.stjude.org/jobs

The NCCHPS November 2006 Meeting!!

Date: Thursday November 2005

Location: Scotts Seafood, Oakland

Speaker: Andrew T. Calvert, US Geological Survey

Title: TBD

NCCHPS
c/o Warren TenBrook
P.O. Box 808
L-344
Livermore, CA
94550

NCCHPS

WWW.NCCHPS.ORG

Mailing Label

You can register for dinner ONLINE at <http://hpschapters.org/ncchps/meetings.php3>!!

The Menu:

- 1) Fresh fillet of Salmon
 - 2) Veal Scallopini
 - 3) Vegetable Manicotti
- Fresh Vegetables,
Rolls & Butter

Schedule:

- 6 pm-Social Hour
7 pm-Dinner
8 pm-Speaker

The Next Meeting!!

Date: Thursday, September 28, 2006

Location: Francesco's
8520 Pardee Drive at
Hegenberger Road,
Oakland CA 94621

Speakers: Tore Straume,
NASA Ames Research Center

Title: "Latest Dosimetry Study
on Hiroshima"

Registration Deadline:
Thursday, Sept. 21, 2006
\$25 Pre-registration
\$30 At The Door
\$10 Student

Try Online Registration OR
Please contact Quang Le
ONLY if you encounter
problems
le22@llnl.gov

The next deadline for news-
letter input is :
Friday October 20, 2006
To the newsletter editor:

Warren TenBrook
tenbrook1@llnl.gov
925-423-1470