

May 2006

May 18, 2006
Hs. Lordships
in Berkeley

NCCHPS



Thursday May 18, 2006

Joint Meeting with The American Association of Physicists in
Medicine, SF Bay Area Chapter

Mark Your Calendars!

The 2005-2006
NCCHPS
technical
meeting dates
are listed below!

November 17,
2005

Francesco's in
Oakland

January 19,
2006

Francesco's in
Oakland

March 16,
2006

Francesco's in
Oakland

March 17,
2006

J. Newell Stannard
Lecture Series
Sacramento, CA

May 18,
2006

Hs.
Lordships
in Berkeley

Speaker:

Dr. Jasmina Vujic
Chair, Department of Nuclear Engineering, UC Berkeley
(<http://www.nuc.berkeley.edu/people/faculty/vujic.htm>)

Title: "UCB Nuclear Engineering Research Highlights in Imaging and Radiation Cancer Therapy"

Abstract:

The presentation will provide a short overview of new research in Medical Imaging and Radiation Cancer Therapy at the UC Berkeley Department of Nuclear Engineering, in collaboration with UC San Francisco and LBNL. In the first part the need and the development of combined SPECT/CT system for small animal imaging will be described. In the second part, development of new sources for radiation cancer therapy will be presented.

Biography:

Dr. Vujic's career started as a researcher and lecturer at the Nuclear Science Institute, Vinca, Belgrade, Yugoslavia in 1977. In 1989 after getting her Ph.D. from the University of Michigan, Ann Arbor, she joined the staff at Argonne National Laboratory. In 1992 she joined the staff in the Nuclear Engineering Department at UC Berkeley as an Assistant Professor and is now Professor and Chair of the department. In addition Dr. Vujic is Director of the Davis Etcheverry Computing Facility and Director of the Advanced Nuclear Engineering Computing Laboratory. Both facilities provide computing services for advanced research and teaching for various departments at UCB.

Dr. Vujic's areas of expertise include physics of fission reactors, advanced nuclear reactor analysis and design, development of modern numerical methods in radiation transport (collision probability, method of characteristics, Monte Carlo), optimization techniques for vector and parallel processing, shielding, radiation protection, and health physics, analysis of the environmental and radiological safety characteristics of fusion/fission systems, medical application of radiation in cancer diagnostic and therapy, BNCT, accelerator-based neutron sources; D-D and D-T, teaching undergraduate and graduate courses in reactor physics and reactor analysis, numerical methods in reactor analysis, and dosimetry and shielding.

Jasmina Vujic is an internationally recognized expert in the advanced method development for reactor analysis and design, as well as for medical applications of radiation. Her general geometry collision probability code GTRAN2 has been licensed to General Electric and Toshiba. Also, the GTRAN2 code was chosen by the U.S. Department of Energy in 1991 as the computational methodology for assembly design of the MHTGR core for tritium production.

She is a member of the American Nuclear Society (ANS) and has held various executive positions in several divisions of ANS. She is a member of American Health Physics Society. Dr. Vujic is also a President of the Association of Electrical Engineers, alumni of the University of Belgrade (the ETF Belgrade Alumni and Friends Association in the U.S.). In 2001 she organized and co-chaired an international conference on environmental recovery of Yugoslavia. Since 1992, Dr. Vujic has given over 80 invited presentations/lectures in the U.S. and abroad (China, Japan, S. Korea, Yugoslavia, Brazil, Mexico, Germany, Bulgaria). She is a reviewer for Nuclear Technology, Nuclear Engineering and Design, Nuclear Instruments and Methods in Physics Research, Journal of Computational Physics, Nuclear Science and Engineering, Progress in Nuclear Energy, and the U.S. Department of Energy.

Dr. Vujic has received many awards including: the 1996 Prytanean Faculty Award at University of California at Berkeley; the Best Paper Award at the 1991 ANS Winter Meeting in San Francisco, CA; the 1991 Argonne National Laboratory Annual Exceptional Performance Award; the Best Program Award at the Int. Topl. Mtg. on Advances in Mathematics, Computations, and Reactor Physics, Pittsburgh, PA, in 1991; the 1989 Distinguished Achievement Award for outstanding work in Nuclear Engineering, College of Engineering, The University of Michigan, Ann Arbor, MI, and the Exceptional Teaching Award, Nuclear Sciences Institute, Belgrade, Yugoslavia (1982). She is holder of one patent and authored close to 200 publications, including over 60 research papers published in leading archival journals, as well as several awarded papers. She has been consultant for General Electric, Transware, VeriTainer, and other companies.



NCCHPS



NCCHPS Board Members:

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Nisy Ipe

650-631-1916
nisy@comcast.net

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925-422-3044
radev1@lInl.gov

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510-987-0971
john.ahlquist@ucop.edu

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510-235-2633
mmannion@eberlineservices.com

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925-424-2875
tripodes2@lInl.gov

Member-At- Large

Todd Sundsmo

925-423-7291
sundsmo2@lInl.gov

President's Column

Our May meeting will be a joint effort with the San Francisco Bay Area Chapter of the American Association of Physicists in Medicine, and will also be our Affiliates night. I am grateful to our Affiliates for their support of the Chapter. The results of our elections will be announced at this meeting. I regret that I will not be able to attend because of impending travel.

Therefore, I take this opportunity to thank you all for giving me the privilege of serving you as President during the past year. As the good book says the body is made up of many parts, some more visible than the others, but each part is vital to the normal functioning of the body. My special thanks to my team mates, Radoslav, John, Melissa, Rao, Jim and Todd for all their support and efforts during the past year.

As some of you may be aware Rachel Zeman, our Newsletter Editor will be leaving us this fall for graduate school in Cincinnati. Rachel did a splendid job and we will miss really her. Please join me in thanking Rachel and wishing her all the very best in her studies.

Thanks are also due to the many others in the Chapter who quietly work behind the scenes, Jack Elliott (email distribution), Quang Le (website), Jesse Hendricks (Affiliates Liaison), Kathleen Dinnel-Jones, Bev DeOcampo, and Mike Grissom (Nominating Committee), and Dave Meyers (HPS Poster). I am reminded of Helen Keller's words, "The world is moved not only by the mighty shoves of the heroes, but by the aggregate of the tiny pushes of each honest worker".

Please continue to support John Ahlquist as he plans and prepares for the 2008 Mid-Year Meeting hosted by the Chapter. Planning will begin soon for our hosting of the 2008 Mid-Year Symposium on Accelerators and Radiation Producing Devices at the end of January in Oakland. Help is always appreciated. Please inform John Ahlquist if you would like to participate.

Finally, as always your continued financial support of the Moyer Fellowship is deeply appreciated. Our special thanks to Charlie Schmidt, Julia Ryan, and Bill Vermeere for their continued efforts in this area.

And now I pass the baton on to Radoslav, with the full confidence that the Chapter will soar under his able leadership. Closing with my best wishes to each and every one of you.

Nisy E. Ipe
President, NCCHPS

FROM THE MOYER COMMITTEE

[Charles Schmidt, Bill Vermeere, Julia Ryan]

This upcoming meeting will be your last chance this chapter year to contribute to the Moyer Fellowship fund. Our board of directors agreed to donate \$750 for this year, which brings the total received so far to \$1975. We have sent our 2006 commitment of \$3500 to national for this year's award. We acknowledge and thank our most recent donors; Patricia Durbin, Bill Vermeere and Todd Sundsmo.

If anyone would like to join this committee, please let Radoslav know about your interest. Some experience or interest in mutual fund investing would be helpful.

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 or Jim Tripodes.

NCCHPS Affiliate's Meeting

Where? Hs. Lordships in Berkeley

When? Thursday May 18, 2006

Speaker? Dr. Jasmina Vujic

Talk? "UCB Nuclear Engineering Research Highlights in Imaging and Radiation Cancer Therapy"

NEW JOBS!!

University of California Santa Cruz CAMPUS RADIATION SAFETY OFFICER

Environmental Health and Safety

Work Location: University of California, Santa Cruz
Campus

Salary commensurate with qualifications and experience

The RSO position at UCSC is an excellent opportunity for you to apply your talents in a dynamic University research environment on the central coast of California! The University of California, Santa Cruz (UCSC) (<http://www.ucsc.edu>) is part of the University of California System and has many exciting initiatives underway. As the leader of the Campus Radiation Safety program, the incumbent will manage the UCSC broad scope license and work as a team member on other interesting campus safety and health activities.

If you have the right qualifications and think you could be an asset to our small team of EH&S professionals, please apply on-line as follows:

1. Go to <https://jobs.ucsc.edu>
2. Left side bar click "SEARCH POSTINGS" (2nd link from the top)

Stanford University Senior Health Physicist

Stanford University's Department of Environmental Health and Safety has an opening for an experienced Senior Health Physicist. Working as the Head of the Medical Health Physics Group and reporting to the Radiation Safety Program Manager/Radiation Safety Officer (RSO), the incumbent oversees the radiation safety program in the clinical uses of radio-isotopes at the Stanford University Hospital and at the Veterans Affairs Palo Alto Health Care System (VAPAHCS). The incumbent also oversees the radiation safety at the Molecular Imaging Program with its associated imaging facilities, radiochemistry facilities and isotope production cyclotron.

QUALIFICATIONS:

Bachelor's degree in health physics or related physical sciences and 2-5 years of directly applicable experience in medical health physics required; Master's degree in health physics or related physical sciences and at least five years of increasing responsibility in medical health physics, including program management, is highly desirable. Combination of education and experience required for certification by the American Board of Radiology (in Physics), American Board of Health Physics, Society of Nuclear Medicine (in Science) or the American Board of Medical Physics. (Certification in one of the above areas is preferred.)

PLEASE NOTE: *Stanford University EH&S will ONLY accept applications for open positions through the Stanford Jobs website, <http://jobs.stanford.edu>.* To apply, navigate to <http://jobs.stanford.edu>. In the top right-hand corner, choose the "Facilities" job family from the pull-down menu, and click "go". Click on the link for job requisition **10328**. Submit your resume by clicking on the "I Want This Job" icon and following the instructions.

For further information, e-mail michelea@stanford.edu. Please Note: Some sections of this job advertisement have been omitted for editing purposes.

Argonne National Laboratory Radiation Safety Services Group Leader

Manages and supervises the Radiation Safety Services (RSS) group in the Radiological Safety Organization. Provides the following essential services to support operations at nuclear and radiological facilities and accelerators: internal and external radiation dosimetry, and procurement, calibration and repair of radiation monitoring instruments. Job # 310294 [\$6737-\$11992 monthly]

Argonne National Laboratory Operational Health Physics Group Leader

Manages and supervises the Operational Health Physics (OHP) group in the Radiological Safety Organization. Develops plans and oversees projects carried out by health physics teams in the OHP group supporting nuclear and radiological facilities at Argonne. Serves as primary technical leader responsible for radiological protection compliance and services in Argonne nuclear facilities. Coordinates OHP activities with the RSO and with the Accelerator Health Physics Supervisor to ensure consistent implementation of 10CFR835 policies and procedures across the site. Job # 310222 [\$6737-\$11992 monthly]

See the Argonne web site (www.anl.gov) for further information and to apply. Or contact Gary Zeman, ANL RSO, 630-252-8893, gzeman@anl.gov.

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Quang Le

Member-at-Large:

Jack Topper

Free Training Workshop on the "Multi-Agency Radiological Analytical Protocols (MARLAP)"

The US EPA is sponsoring a free training workshop on the "Multi-Agency Radiological Analytical Protocols (MARLAP)" at the Governor's Inn in Sacramento on May 31 and June 1, 2006. A description of the course, contact person and bios of the instructors have been summarized on the attached pdf file. Two of the instructors are HPS Fellows.

Participants must register by May 16. To register contact Richard Lessler at 415-947-4197, email: lessler.richard@epa.gov. If you have questions, please contact John Griggs 334-270-3450, email: griggs.john@epa.gov

Governor's Inn
(<http://www.governorsinn.net/>)
800-999-6689 ("MARLAP Training" for preferred rates)

51st Annual Health Physics Society Meeting!!!!

June 25-26 Providence, RI

The New England Chapter of the Health Physics Society cordially invites you to attend the Annual HPS Meeting in Providence, Rhode Island, in June of 2006. The Local Arrangements Committee is hard at work to make the 50th Anniversary close-out celebration a memorable event.

If you've never been to New England before, summer is a fine time to explore the area in and around Providence. The organized social tours will offer the highlights of the region but with a bit of planning, and maybe a few extra days built into your trip, you can create an itinerary to suit your tastes. Since we are such a compact geographical area, most areas are accessible by a short car ride or train.

In Providence proper you'll find much history just by walking down the streets. For a totally unique museum, go to see the Russian sub docked in Narragansett Bay, not far from downtown. For a bit of wildlife, the Roger Williams Park Zoo is less than a mile from the Westin, the host hotel for the HPS meeting. Venturing a little farther from the city, Newport should be on your must-see list. The dazzling "summer cottages" of America's wealthiest families and the laid-back seaside atmosphere make for a pleasant day.

Why not take advantage of summertime near the ocean? The Cape Cod season will have just started, and the beaches of Connecticut are lovely as well. Mystic (CT) Seaport is a bustling resort town that revels in its seafaring heritage. Don't forget that the lobster is divine at that time of year.

Whatever your fancy, the NECHPS is eager to welcome you to New England next summer!

VENDOR NIGHT!!



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Advanced Measurement Technology, Inc., ORTEC is a provider of detectors, pulse-processing electronics, software and spectrometers for measuring and quantifying the energy and time distributions of optical photons, X-rays, gamma rays, charged particles and radioactive nuclides... in the laboratory or the natural environment. ORTEC is leading the way with innovative and compact instrumentation designs for laboratory and field use. Our software is 100% compatible with industry standard Microsoft operating systems up to and including Windows XP. With our X-COOLER.

We have developed the X-COOLER, the first truly inexpensive and reliable mechanical cooler for HPGe detectors. In the DETECTIVE, we now have a truly portable mechanically-cooled, HPGe-based nuclide identifier. Our digital multichannel analyzers; DigiDART and digiBASE offer the user the very best self-contained multichannel analyzers for NaI and HPGe. For all these applications and many others, ORTEC combines its detectors, electronics, and software to deliver unsurpassed sensitivity and ease of use. For additional details, visit our website.



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Fax: (865) 425-4309
Cell: (865) 300-8008

Darrell.Scoggins@BertholdTech.com
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800 Research Parkway
Meriden, CT
06450

Jim Barstow
(925) 945-7875(W)
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Canberra has established a Homeland Security Division, providing a range of products designed specifically for these needs. These include the InSpector-1000, a hand held MCA with a color display, capable of storing 250 Spectra. This unique unit will provide Dose Rate, and Nuclide Identification. Both qualitative and quantitative information is presented, with Automatic Nuclide Interference Correction also included. Multiple Nuclide Libraries are provided with the InSpector-1000. Software to permit the user to setup his own subsets is also included.

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DAN LOVE/ASSOCIATES

21 Los Dedos Road
Orinda, CA 94563

Dan Love
(925) 253-8306(W)
(925) 263-8277(F)

Lovedjlove@aol.com



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- Alpha Spectrum: Scintillation Detectors - all types
- Health Physics Instruments: HP Instruments - Portable MCA's

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Jim Harvey
(209) 667-1102(W)
(209) 667-1583(F)

emctga@aol.com

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EMC offers disposal of sealed sources by encapsulating them in specification containers and structural grade (2500 p.s.i.) concrete at our Turlock, CA facility. EMC also will pickup mixed wastes at customers sites and transship it to a licensed processor of the customers choice.

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(352) 680-1454(F)

fandj@fjspecialty.com
www.fjspecialty.com

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Landauer is the leading provider of analytical services to determine personnel exposure to occupational and environmental radiation hazards in the workplace and at home. Since 1954, the company has provided radiation dosimetry services to hospitals, medical and dental offices, university and national laboratories, nuclear power plants and the industries, in which radiation poses a potential threat to employees.

The service includes the manufacture of various types of radiation detection monitors, the distribution and collection of monitors to and from the clients and the analysis, reporting and record keeping of exposure findings. The company also has established itself as an important provider of radon gas detection services. The company's Rad-Trak alpha track radon detection system has set the industry standard for quality in radon gas monitoring. For additional details, visit our website.



Heather N. Sugrue | Account Manager
PerkinElmer Life and Analytical Sciences
Mobile: 925.212.8388
Email: heather.sugrue@perkinelmer.com

Max Cooper
Detection Systems and Liquid Handling Automation
PerkinElmer Life and Analytical Sciences
Cell: (510) 459-4751
VM: (800) 762-4000 ext. 5, 3679
Email max.cooper@perkinelmer.com

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Philotechnics

500 E. Thacker St.
Hoffman Estates, IL 600194

Fred Scott
W. Coast Sales Manager
136 Oak Ridge Dr.
New Braunfels, TX 78130
Phone: 830-627-2270
Fax: 830-627-7902
FSCOTT1@satx.rr.com



The People
Behind Your Badge

Radiation Detection Company

8095 Camino Arroyo
Gilroy, CA
95020

P.O.Box 22300
Gilroy, CA 95021

Jim Rolph
(408) 842-2700(W)
(408) 621-2364 (C)
(408) 847-2988 (F)

jim.rolph@radetco.com
www.radetco.com

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

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



Thermo Electron Radiation Measurement & Protection

PO Box 621059
Littleton, CO 80162

Denny Cannon
(303) 948-5001(W)
(303) 907-0324 (c)
(303) 978-0518(F)

denny.cannon@thermo.com
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For additional details, visit our website.

Established in 1949, **Radiation Detection Company (RDC)** offers NVLAP accredited dosimetry service. RDC provides film and TLD dosimetry services, complete with analysis, reporting, and record keeping of personnel dose.

We are now pleased to offer our recently accredited type 82 and 83 TLD dosimeters. These dosimeters use the Panasonic UD-802 badge in our custom designed holder. The type 83 dosimeters contain a CR-39 detector for neutron environments. Additionally, we have introduced new software and web services offering clients more flexibility and more timely responses.

In March 2004, our type 01 film dosimeter passed accreditation under the new standard, ANSI N13.11-2001. We hope you will visit our web site, www.radetco.com to see what's new. RDC offers the best price value in the industry and we pride ourselves in providing the highest level of personal customer service. We want to be **the people behind your badge**.

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 - Princeton Gamma Tech – semiconductor detectors for gamma and x-ray
 - Ordela Inc – alpha scintillation detector and alpha spectrometers
 - TSA Systems – SNM monitors and mobile GPS survey systems.
 - Ludlum Measurements - health physics survey instrumentation XRF - CZT gamma detector isotopic identifier
- For additional details, visit our website.

Thermo Electron manufactures, services, and calibrates instrumentation for a large variety of radiological measurement applications. Included in the product mix are area monitors, multichannel analyzers, active and passive dosimeters, neutron shielding, and survey instruments. Our product names include Eberline, Bicon, Harshaw, NE Technology, Target, Reactor Experiments, and Siemens EPD's. We continue to develop instruments for, and support the work of, our valued Northern California customer base. Thank you for your continued interest in Thermo Electron. Please contact: Denny Cannon (303) 948 5001 denny.cannon@thermo.com

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NCCHPS

[HTTP://HPSCHAPTERS.ORG/NCCHPS/](http://hpschapters.org/ncchps/)

Mailing Label

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

The Menu:

- 1) Fish
 - 2) Beef
 - 3) Vegetarian
- Fresh Vegetables,
Rolls & Butter

Schedule:

6 pm-Social Hour
No Host Bar
7 pm-Dinner
8 pm-Speaker

The Next Meeting!!

Date: Thursday, May 18,
2006

Location: Hs. Lordships at the
Berkeley Marina
199 Sewall Drive
Berkeley, Ca
(510) 843-2733

Speaker: Dr. Jasmina Vujic

Title: "UCB Nuclear
Engineering Research
Highlights in Imaging and
Radiation Cancer Therapy"

Registration Deadline:
Friday May 12, 2006
\$25 Pre-registration
\$30 At The Door

Try Online Registration OR
please contact:
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