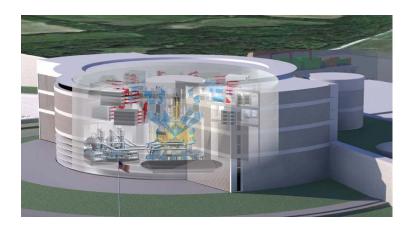
NCCHPS

Northern California Chapter-Health Physics Society September 2012



The NCCHPS September 2012 Dinner Meeting



Thursday, September 20, 2012
Speisekammer Alameda
6 pm Social
7 pm Dinner
8 pm Presentation:

LASER INERTIAL FUSION ENERGY
(LIFE)
OVERVIEW AND DELIVERY*

Dr. Susana Reyes, LIFE Licensing and Tritium Systems Lead, LLNL

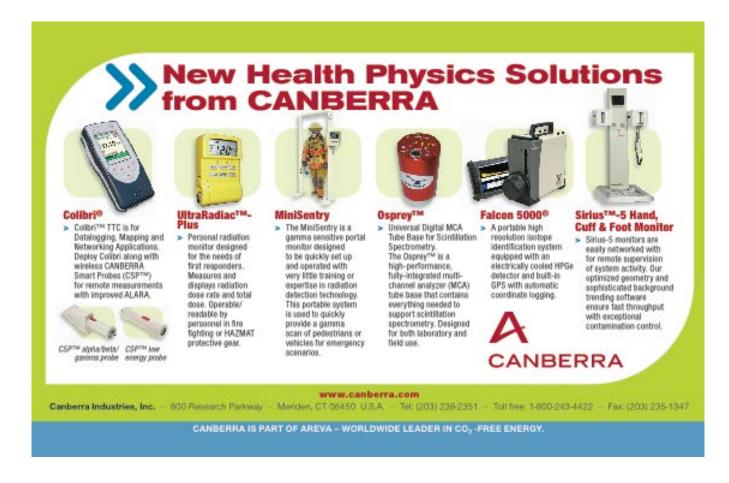
Summary: The National Ignition Facility (NIF), the world's largest and most energetic laser, is now fully operational at Lawrence Livermore National Laboratory. In this talk we will discuss an approach to generating gigawatts of electrical power using laser-driven targets that are based upon NIF demonstrations. A system-wide optimization provides a solution that produces competitive commercial power while only requiring moderate fusion gains. This "LIFE" concept addresses many of the long-standing challenges to timely delivery of commercial fusion power.

About the Speaker: Dr. Susana Reyes is a nuclear engineer at LLNL, with more than 13 years of experience in international fusion projects. She is currently leading the LIFE effort for licensing and tritium systems. She earned an M.Sci. in Power Engineering from the Polytechnic University of Madrid in 1998 and a Ph.D. in Nuclear Engineering from the UNED University in Madrid in 2001. Dr. Reyes then joined LLNL's Fusion Energy Program to work on the safety analysis of inertial fusion energy power plant designs. Since then, she has worked in a variety of fusion research projects, such as the U.S. ITER Test Blanket Module program, for the testing of tritium breeding blanket concepts within the ITER facility. She has also been strongly involved in neutronics and materials damage simulations at LLNL in support of high-energy accelerators and of the National Ignition Facility (NIF). From 2006 until early 2010, Dr. Reyes took a leave of absence from LLNL in order to join the ITER Organization in Cadarache, France, to support the project through the performance and coordination of safety analyses and associated documentation in preparation for ITER licensing.

Dr. Reyes is the current vice-chair/chair-elect of the American Nuclear Society (ANS) Fusion Energy Division, and is also a member of the ANS Northern California chapter Executive Committee.

*This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

NCCHPS September 2012



2013 Midyear Topical Meeting - Medical Health Physics and Accelerator Dosimetry

27-30 January 2013, Scottsdale, Arizona

The Health Physics Society invites members of the Society, members of AAPM, other scientists and students to participate in the 46th Midyear Topical Meeting of the Health Physics Society. The HPS has applied for CAMPEP credits for attendance at this meeting.

Abstract Due Date: September 7, 2012

Please submit your abstract on-line using the

site: http://www.hpschapters.org/2013midyear/abstracts/
NOTE: Abstracts submitted via email will not be accepted.



NCCHPS September 2012

Upcoming NCCHPS Meetings...

September 20, 2012

November 15, 2012

January 17, 2013

March 21, 2013

May 16, 2013 Affiliate Night

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

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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!

September 20, 2012

Speisekammer

2424 Lincoln Ave. Alameda, CA 94501 (510) 522-1300

Appetizers Buffet with Pitchers of Beer, Red & White Wine on Table, cash for cocktails

Dinner Buffet: Carrot, Red Beet, Cucumber and Cabbage Salads; Sauerbraten Marinated and braised Beef Jägerschnitzel vom Schwein; Pork Cutlet, sautéed in Mushroom Sauce; Grilled Salmon with Cucumber Dill Sour Cream served on a bed of Spinach

Vegetarian: Spätzle baked with Asiago and Parmesan Cheese, Caramelized Onions (can also be a side dish)

Sides: Grilled Broccolini, Red Cabbage Mashed Potatoes

Dessert: Chocolate Bread Pudding with Vanilla Sauce

Cost:

NCCHPS members \$30 (\$35 @ door)

NCCHPS guests \$35 Students \$10 Non-members \$40

<u>Deadline:</u> Please register by Sept 13.

Cancellations not accepted after the RSVP deadline; attendance will be limited to 50 people due to room size:

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

Only online registrations will be accepted.

Contact thompson130@Ilnl.gov ONLY if
you encounter problems with online
registration.

2011-2012 NCCHPS Board Members:

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